



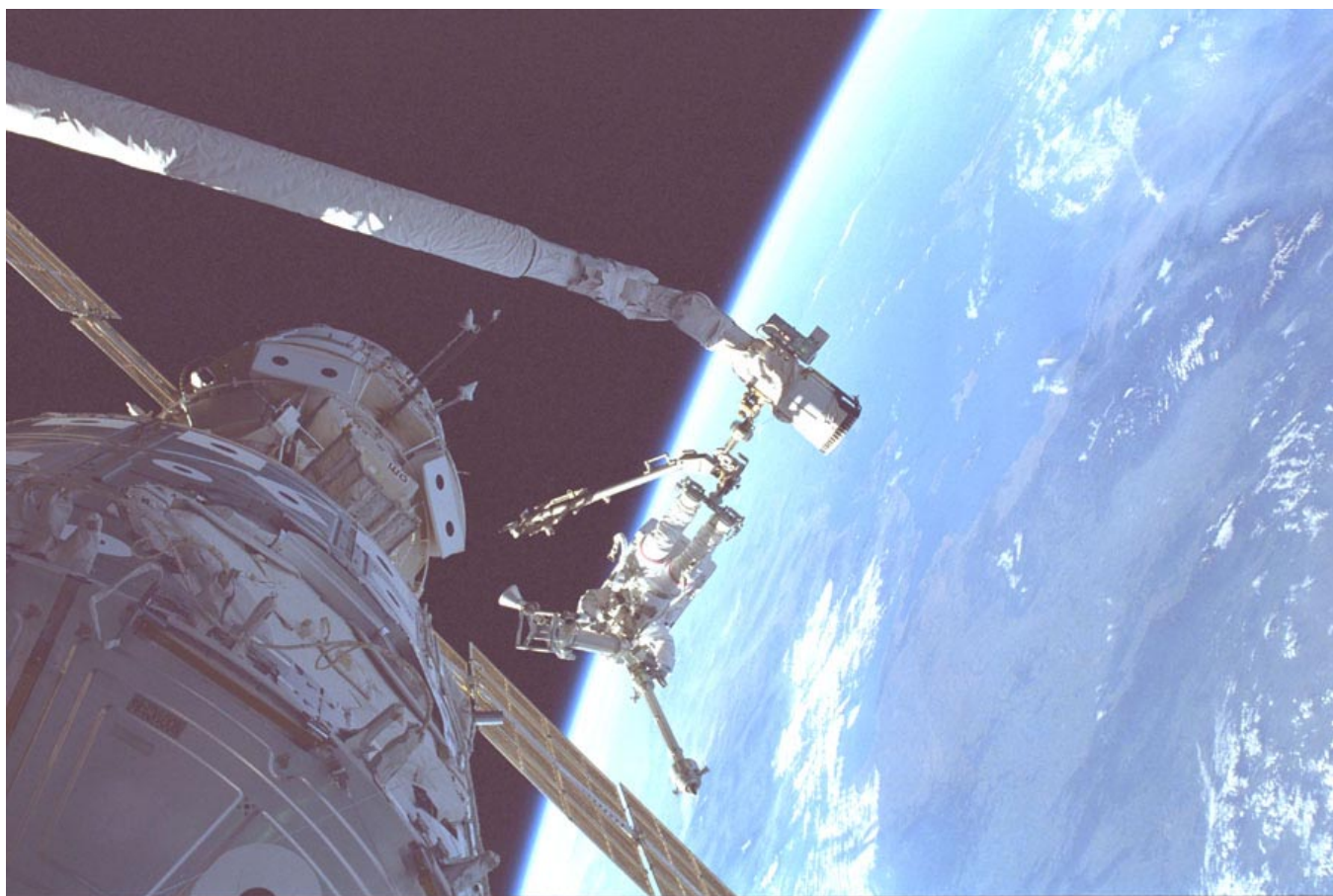
National Aeronautics and
Space Administration

Information Summaries

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Astronaut Fact Book



To most people, the sky is the limit.
To those who love flight, the sky is home.
— anon

PREFACE

The National Aeronautics and Space Administration (NASA) selected the first group of astronauts in 1959. From 500 candidates having the required jet aircraft flight experience and engineering training as well as height below 5 feet 11 inches, 7 military men became the Nation's first astronauts. The second and third groups chosen included civilians who had extensive flying experience. By 1964, requirements had changed, and emphasis was placed on academic qualifications; in 1965, 6 scientist astronauts were selected from a group of 400 applicants who had a Doctorate or equivalent experience in the natural sciences, medicine, or engineering. The group named in 1978 was the first of space shuttle flight crews and since then, 8 additional groups have been selected with a mix of pilots and mission specialists.

There are currently 138 U.S. astronauts and 17 candidates in the program; 129 astronauts have retired, resigned or been reassigned; and 27 are deceased.

Though most of the information in this document pertains only to U.S. Astronauts, several sections are included to provide information about the international astronauts and Russian trained Cosmonauts who are currently partners with the U.S. Space Program participating in the International Space Station endeavor. The non-U.S. information presented here was gathered from the biographies provided by the various space agencies with which these individuals are affiliated.

Payload specialists are career scientists or engineers selected by their employer or country for their expertise in conducting a specific experiment or commercial venture on a space shuttle mission. Information about them is not included in the Astronaut Fact Book.

The space flights and statistics listed in this publication are those which resulted from the vertical takeoff of an American space vehicle. Astronauts listed (unless otherwise noted) are individuals who participated in the United States astronaut program including those who are in the training program.

NASA accepts applications for the Astronaut Candidate Program on a continuing basis and selects candidates as needed.

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Cover Art

Astronaut works outside the Shuttle with the Earth as a backdrop

UNITED STATES ASTRONAUTS

<u>Astronaut</u>	<u>Selection Year</u>	<u>Group</u>	<u># Flights</u>	<u>Status</u>
Adamson, James C.	1984	10	2	Former
Akers, Thomas D.	1987	12	4	Former
Aldrin, Buzz	1963	3	2	Former
Allen, Andrew M.	1987	12	3	Former
Allen, Joseph P.	1967	6	2	Former
Altman, Scott D.	1995	15	2	Current
Anders, William A.	1963	3	1	Former
Anderson, Clayton C.	1998	17	0	Current
Anderson, Michael P.	1995	15	1	Current
Antonelli, Dominic A.	2000	18	0	Candidate
Apt, Jerome	1985	11	4	Former
Archambault, Lee J.	1998	17	0	Current
Armstrong, Neil A.	1962	2	2	Former
Ashby, Jeffrey S.	1995	15	1	Current
Bagian, James P.	1980	9	2	Former
Baker, Ellen S.	1984	10	3	Current
Baker, Michael A.	1985	11	4	Current
Barratt, Michael R.	2000	18	0	Candidate
Barry, Daniel T.	1992	14	2	Current
Bassett, Charles A., II	1963	3	0	Deceased
Bean, Alan L.	1963	3	2	Former
Behnken, Robert L.	2000	18	0	Candidate
Blaha, John E.	1980	9	5	Former
Bloomfield, Michael J.	1995	15	1	Current
Bluford, Guion S., Jr.	1978	8	4	Former
Bobko, Karol J.	1969	7	3	Former
Boe, Eric A.	2000	18	0	Candidate
Bolden, Charles F., Jr.	1980	9	4	Former
Borman, Frank	1962	2	2	Former
Bowen, Stephen G.	2000	18	0	Candidate
Bowersox, Kenneth D.	1987	12	4	Current
Brady, Charles E., Jr.	1992	14	1	Current
Brand, Vance D.	1966	5	4	Former
Brandenstein, Daniel C.	1978	8	4	Former
Bridges, Roy D., Jr.	1980	9	1	Former
Brown, Curtis L., Jr.	1987	12	6	Former
Brown, David M.	1996	16	0	Current
Brown, Mark N.	1984	10	2	Former
Buchli, James F.	1978	8	4	Former
Bull, John S.	1966	5	0	Former
Burbank, Daniel C.	1996	16	1	Current
Bursch, Daniel W.	1990	13	3	Current

UNITED STATES ASTRONAUTS

<u>Astronaut</u>	<u>Selection Year</u>	<u>Group</u>	<u># Flights</u>	<u>Status</u>
Cabana, Robert D.	1985	11	4	Current
Cagle, Yvonne D.	1996	16	0	Current
Caldeiro, Fernando (Frank)	1996	16	0	Current
Caldwell, Tracy E.	1998	17	0	Current
Camarda, Charles J.	1996	16	0	Current
Cameron, Kenneth D.	1984	10	3	Former
Carey, Duane G.	1996	16	0	Current
Carpenter, M. Scott	1959	1	1	Former
Carr, Gerald P.	1966	5	1	Former
Carter, Manley Lanier, Jr.	1984	10	1	Deceased
Casper, John H.	1984	10	4	Former
Cernan, Eugene A.	1963	3	3	Former
Chaffee, Roger B.	1963	3	0	Deceased
Chamitoff, Gregory E.	1998	17	0	Current
Chang-Diaz, Franklin R.	1980	9	6	Current
Chapman, Philip K.	1967	6	0	Former
Chawla, Kalpana	1995	15	1	Current
Chiao, Leroy	1990	13	2	Current
Chilton, Kevin P.	1987	12	3	Former
Chretien, Jean-Loup J. M.	1995	15	3	Current
Clark, Laurel B.	1996	16	0	Current
Cleave, Mary L.	1980	9	2	Former
Clifford, Michael R.	1990	13	3	Former
Coats, Michael L.	1978	8	3	Former
Cockrell, Kenneth D.	1990	13	3	Current
Coleman, Catherine G.	1992	14	2	Current
Collins, Eileen M.	1990	13	3	Current
Collins, Michael	1963	3	2	Former
Conrad, Charles, Jr.	1962	2	4	Deceased
Cooper, L. Gordon, Jr.	1959	1	2	Former
Covey, Richard O.	1978	8	4	Former
Creamer, Timothy J.	1998	17	0	Current
Creighton, John O.	1978	8	3	Former
Crippen, Robert L.	1969	7	4	Former
Culbertson, Frank L., Jr.	1984	10	2	Current
Cunningham, Walter	1963	3	1	Former
Curbeam, Robert L., Jr.	1995	15	1	Current
Currie, Nancy J.	1990	13	3	Current
Davis, N. Jan	1987	12	3	Former
Drew, Alvin B.	2000	18	0	Candidate
Duffy, Brian	1985	11	3	Current
Duke, Charles M., Jr.	1966	5	1	Former
Dunbar, Bonnie J.	1980	9	5	Current

UNITED STATES ASTRONAUTS

<u>Astronaut</u>	<u>Selection Year</u>	<u>Group</u>	<u># Flights</u>	<u>Status</u>
Edwards, Joe F., Jr.	1995	15	1	Former
Eisele, Donn F.	1963	3	1	Deceased
England, Anthony W.	1967	6	1	Former
Engle, Joe H.	1966	5	2	Former
Evans, Ronald E.	1966	5	1	Deceased
Fabian, John M.	1978	8	2	Former
Ferguson, Christopher J.	1998	17	0	Current
Feustel, Andrew J.	2000	18	0	Candidate
Fincke, E. Michael	1996	16	0	Current
Fisher, Anna L.	1978	8	1	Current
Fisher, William F.	1980	9	1	Former
Foale, C. Michael	1987	12	5	Current
Ford, Kevin A.	2000	18	0	Candidate
Foreman, Michael J.	1998	17	0	Current
Forrester, Patrick G.	1996	16	0	Current
Fossum, Michael E.	1998	17	0	Current
Freeman, Theodore C.	1963	3	0	Deceased
Frick, Stephen N.	1996	16	0	Current
Fullerton, Charles G.	1969	7	2	Former
Garan, Ronald J., Jr.	2000	18	0	Candidate
Gardner, Dale A.	1978	8	2	Former
Gardner, Guy S.	1980	9	2	Former
Garriott, Owen K.	1965	4	2	Former
Gemar, Charles D.	1985	11	3	Former
Gernhardt, Michael L.	1992	14	3	Current
Gibson, Edward G.	1965	4	1	Former
Gibson, Robert L.	1978	8	5	Former
Givens, Edward G., Jr.	1966	5	0	Deceased
Glenn, John H., Jr.	1959	1	2	Former
Godwin, Linda M.	1985	11	3	Current
Good, Michael T.	2000	18	0	Candidate
Gordon, Richard F., Jr.	1963	3	2	Former
Gorie, Dominic L.	1995	15	2	Current
Grabe, Ronald J.	1980	9	4	Former
Graveline, Duane E.	1965	4	0	Former
Gregory, Frederick D.	1978	8	3	Former
Gregory, William G.	1990	13	1	Former
Griggs, S. David	1978	8	1	Deceased
Grissom, Virgil I.	1959	1	2	Deceased
Grunsfeld, John M.	1992	14	3	Current
Gutierrez, Sidney M.	1984	10	2	Former

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<u>Astronaut</u>	<u>Selection Year</u>	<u>Group</u>	<u># Flights</u>	<u>Status</u>
Haise, Fred W., Jr.	1966	5	1	Former
Halsell, James D., Jr.	1990	13	5	Current
Ham, Kenneth T.	1998	17	0	Current
Hammond, L. Blaine, Jr.	1984	10	2	Former
Harbaugh, Gregory J.	1987	12	4	Current
Harris, Bernard A., Jr.	1990	13	2	Former
Hart, Terry J.	1978	8	1	Former
Hartsfield, Henry W., Jr.	1969	7	3	Former
Hauck, Frederick H.	1978	8	3	Former
Hawley, Steven A.	1978	8	5	Current
Helms, Susan J.	1990	13	3	Current
Henize, Karl G.	1967	6	1	Deceased
Henricks, Terence T.	1985	11	4	Former
Herrington, John B.	1996	16	0	Current
Hieb, Richard J.	1985	11	3	Former
Higginbotham, Joan E.	1996	16	0	Current
Hilmers, David C.	1980	9	4	Former
Hire, Kathryn P.	1995	15	1	Current
Hobaugh, Charles O.	1996	16	0	Current
Hoffman, Jeffrey A.	1978	8	5	Former
Holmquest, Donald L.	1967	6	0	Former
Horowitz, Scott J.	1992	14	3	Current
Hurley, Douglas G.	2000	18	0	Candidate
Husband, Rick D.	1995	15	1	Current
Irwin, James B.	1966	5	1	Deceased
Ivins, Marsha S.	1984	10	4	Current
Jemison, Mae C.	1987	12	1	Former
Jernigan, Tamara E.	1985	11	5	Current
Jett, Brent W.	1992	14	2	Current
Johnson, Gregory C.	1998	17	0	Current
Johnson, Gregory H.	1998	17	0	Current
Jones, Thomas D.	1990	13	3	Current
Kavandi, Janet L.	1995	15	2	Current
Kelly, James M.	1996	16	0	Current
Kelly, Mark E.	1996	16	0	Current
Kelly, Scott J.	1996	16	1	Current
Kerwin, Joseph P.	1965	4	1	Former
Kilrain, Susan L.	1995	15	2	Current
Kopra, Timothy L.	2000	18	0	Candidate
Kregel Kevin R.	1992	14	4	Current

UNITED STATES ASTRONAUTS

<u>Astronaut</u>	<u>Selection Year</u>	<u>Group</u>	<u># Flights</u>	<u>Status</u>
Lawrence, Wendy B.	1992	14	3	Current
Lee, Mark C.	1984	10	4	Current
Leestma, David C.	1980	9	3	Former
Lenoir, William B.	1967	6	1	Former
Lind, Don L.	1966	5	1	Former
Lindsey, Steven W.	1995	15	2	Current
Linenger, Jerry M.	1992	14	3	Former
Linnehan, Richard M.	1992	14	2	Current
Llewellyn, John A.	1967	6	0	Former
Lockhart, Paul S.	1996	16	0	Current
Lopez-Alegria, Michael E.	1992	14	1	Current
Loria, Christopher J.	1996	16	0	Current
Lounge, John M.	1980	9	3	Former
Lousma, Jack R.	1966	5	2	Former
Love, Stanley G.	1998	17	0	Current
Lovell, James A., Jr.	1962	2	4	Former
Low, G. David	1984	10	3	Former
Lu, Edward T.	1995	15	2	Current
Lucid, Shannon W.	1978	8	5	Current
Magnus, Sandra H.	1996	16	0	Current
Massimino, Michael J.	1996	16	0	Current
Mastracchio, Richard A.	1996	16	1	Current
Mattingly, Thomas K., II	1966	5	3	Former
McArthur, K. Megan	2000	18	0	Candidate
McArthur, William S., Jr.	1990	13	2	Current
McBride, Jon A.	1978	8	1	Former
McCandless, Bruce, II	1966	5	2	Former
McCool, William C.	1996	16	0	Current
McCulley, Michael J.	1984	10	1	Former
McDivitt, James A.	1962	2	2	Former
McMonagle, Donald R.	1987	12	3	Former
McNair, Ronald E.	1978	8	2	Deceased
Meade, Carl J.	1985	11	3	Former
Melnick, Bruce E.	1987	12	2	Former
Melroy, Pamela A.	1995	15	0	Current
Melvin, Leland D.	1998	17	0	Current
Michel, F. Curtis	1965	4	0	Former
Mitchell, Edgar D.	1966	5	1	Former
Morgan, Barbara R.	1998	17	0	Current
Morin, Lee M.	1996	16	0	Current
Mullane, Richard M.	1978	8	3	Former
Musgrave, Story	1967	6	6	Former

UNITED STATES ASTRONAUTS

<u>Astronaut</u>	<u>Selection Year</u>	<u>Group</u>	<u># Flights</u>	<u>Status</u>
Nagel, Steven R.	1978	8	4	Former
Nelson, George D.	1978	8	3	Former
Newman, James H.	1990	13	3	Current
Noriega, Carlos I.	1995	15	1	Current
Nowak, Lisa M.	1996	16	0	Current
Nyberg, Karen L.	2000	18	0	Candidate
Ochoa, Ellen	1990	13	3	Current
O'Connor, Bryan D.	1980	9	2	Former
O'Leary, Brian T.	1967	6	0	Former
Oefelein, William A.	1998	17	0	Current
Olivas, John D.	1998	17	0	Current
Onizuka, Ellison S.	1978	8	2	Deceased
Oswald, Stephen S.	1985	11	3	Former
Overmyer, Robert F.	1969	7	2	Deceased
Parazynski, Scott E.	1992	14	3	Current
Parker, Robert A. R.	1967	6	2	Former
Patrick, Nicholas J. M.	1998	17	0	Current
Peterson, Donald H.	1969	7	1	Former
Pettit, Donald R.	1996	16	0	Current
Phillips, John L.	1996	16	0	Current
Pogue, William R.	1966	5	1	Former
Poindexter, Alan G.	1998	17	0	Current
Polansky, Mark L.	1996	16	0	Current
Precourt, Charles J., Jr.	1990	13	4	Current
Readdy, William F.	1987	12	3	Current
Reightler, Kenneth S., Jr.	1987	12	2	Former
Reilly, James F.	1995	15	1	Current
Reisman, Garrett E.	1998	17	0	Current
Resnik, Judith A.	1978	8	2	Deceased
Richards, Paul W.	1996	16	0	Current
Richards, Richard N.	1980	9	4	Former
Ride, Sally K.	1978	8	2	Former
Robertson, Patricia Hilliard	1998	17	0	Current
Robinson, Stephen K.	1995	15	2	Current
Rominger, Kent V.	1992	14	4	Current
Roosa, Stuart A.	1966	5	1	Deceased
Ross, Jerry L.	1980	9	6	Current
Runco, Mario, Jr.	1987	12	3	Current
Schirra, Walter M., Jr.	1959	1	3	Former
Schmitt, Harrison H.	1965	4	1	Former
Schweickart, Russell L.	1963	3	1	Former
Scobee, Francis R.	1978	8	2	Deceased

UNITED STATES ASTRONAUTS

<u>Astronaut</u>	<u>Selection Year</u>	<u>Group</u>	<u># Flights</u>	<u>Status</u>
Scott, David R.	1963	3	3	Former
Scott, Winston E.	1992	14	2	Former
Searfoss, Richard A.	1990	13	3	Former
Seddon, Margaret Rhea	1978	8	3	Former
See, Elliot M., Jr.	1962	2	0	Deceased
Sega, Ronald M.	1990	13	2	Former
Sellers, Piers J.	1996	16	0	Current
Shaw, Brewster H., Jr.	1978	8	3	Former
Shepard, Alan B., Jr.	1959	1	2	Deceased
Shepherd, William M.	1984	10	3	Current
Shriver, Loren J.	1978	8	3	Former
Slayton, Donald K.	1959	1	1	Deceased
Smith, Michael J.	1980	9	1	Deceased
Smith, Steven L.	1992	14	3	Current
Spring, Sherwood C.	1980	9	1	Former
Springer, Robert C.	1980	9	2	Former
Stafford, Thomas P.	1962	2	4	Former
Stefanyshyn-Piper, Heidemarie M.	1996	16	0	Current
Stewart, Robert L.	1978	8	2	Former
Stott, Nicole P.	2000	18	0	Candidate
Sturckow, Frederick W.	1995	15	1	Current
Sullivan, Kathryn D.	1978	8	3	Former
Swanson, Steven R.	1998	17	0	Current
Swigert, John L., Jr.	1966	5	1	Deceased
Tani, Daniel M.	1996	16	0	Current
Tanner, Joseph R.	1992	14	2	Current
Thagard, Norman E.	1978	8	5	Former
Thomas, Andrew S. W.	1992	14	2	Current
Thomas, Donald A.	1990	13	4	Current
Thorne, Stephen D.	1985	11	0	Deceased
Thornton, Kathryn C.	1984	10	4	Former
Thornton, William E.	1967	6	2	Former
Thuot, Pierre J.	1985	11	3	Former
Truly, Richard H.	1969	7	2	Former
van Hoften, James D. A.	1978	8	2	Former
Veach, Charles Lacy	1984	10	2	Deceased
Virts, Terry W., Jr.	2000	18	0	Candidate
Voss, James S.	1987	12	4	Current
Voss, Janice E.	1990	13	5	Current
Walheim, Rex J.	1996	16	0	Current
Walker, David M.	1978	8	4	Former
Walz, Carl E.	1990	13	3	Current
Weber, Mary E.	1992	14	2	Current

UNITED STATES ASTRONAUTS

<u>Astronaut</u>	<u>Selection Year</u>	<u>Group</u>	<u># Flights</u>	<u>Status</u>
Weitz, Paul J.	1966	5	2	Former
Wetherbee, James D.	1984	10	4	Current
Wheelock, Douglas H.	1998	17	0	Current
White, Edward H., II	1962	2	1	Deceased
Whitson, Peggy A.	1996	16	0	Current
Wilcutt, Terrence W.	1990	13	4	Current
Williams, Clifton C., Jr.	1963	3	0	Deceased
Williams, Donald E.	1978	8	2	Former
Williams, Jeffrey N.	1996	16	1	Current
Williams, Sunita L.	1998	17	0	Current
Wilmore, Barry E.	2000	18	0	Candidate
Wilson, Stephanie D.	1996	16	0	Current
Wisoff, Peter J. K.	1990	13	3	Current
Wolf, David A.	1990	13	2	Current
Woodward, Neil W., III	1998	17	0	Current
Worden, Alfred M.	1966	5	1	Former
Young, John W.	1962	2	6	Current
Zamka, George D.	1998	17	0	Current

INTERNATIONAL ASTRONAUTS CURRENTLY IN THE U.S. PROGRAM

Astronaut	Selection Year	Country	# Flights	Status
Clervoy, Jean-Francois	1992	France	3	Current
Doi, Takao	1995	Japan	1	Current
Duque, Pedro	1996	Spain	1	Current
Eyharts, Leopold	1998	France	0	Current
Fuglesang, Christer	1996	Sweden	0	Current
Garneau, Marc	1992	Canada	2	Current
Guidoni, Umberto	1996	Italy	1	Current
Hadfield, Chris A.	1992	Canada	1	Current
MacLean, Steve	1996	Canada	1	Current
Mohri, Mamoru	1996	Japan	2	Current
Nespoli, Paolo	1998	Italy	0	Current
Nicollier, Claude	1980	Switzerland	4	Current
Noguchi, Soichi	1996	Japan	0	Current
Payette, Julie	1996	Canada	1	Current
Perrin, Philippe	1996	France	0	Current
Pontes, Marcos	1998	Brazil	0	Current
Schlegel, Hans	1998	Germany	0	Current
Thiele, Gerhard	1996	Germany	1	Current
Tognini, Michel	1995	France	2	Current
Tryggvason, Bjarni V.	1998	Canada	0	Current
Vittori, Roberto	1998	Italy	0	Current
Wakata, Koichi	1992	Japan	1	Current
Williams, Dafydd Rhys	1995	Canada	1	Current

RUSSIAN COSMONAUTS CURRENTLY IN THE U.S. PROGRAM

Cosmonaut	# Flights	Status
Budarin, Nikolai	2	Current
Dezhurov, Vladimir	1	Current
Gidzenko, Yuri	1	Current
Kondakova, Elena	2	Current
Krikalev, Sergei	4	Current
Lonchakov, Yuri	0	Current
Malenchenko, Yuri	2	Current
Morukov, Boris	1	Current
Onufrienko, Yuri	1	Current
Poleshchuk, Alexander	1	Current
Ryumin, Valery	4	Current
Sharipov, Salizhan	1	Current
Solovyev, Anatoly	4	Current
Strekalov, Gennady	4	Current
Titov, Vladimir	5	Current
Tokarev, Valery	1	Current
Turin, Mikhail	0	Current
Usachev, Yuriy	3	Current

CURRENT U.S. ASTRONAUTS

ALTMAN, Scott D., Commander, U.S. Navy

Pilot.

Born August 15, 1959, in Lincoln, Illinois. Hometown, Pekin, Illinois.

Bachelor of Science in aeronautical/astronautical engineering from University of

Illinois; Master of Science in aeronautical engineering, Naval Postgraduate School.

Flew on STS-90 and STS-106.

Cumulative hours of space flight are more than 664.

ANDERSON, Clayton C., Civilian

Mission Specialist.

Born February 23, 1959, in Omaha, Nebraska. Hometown, Ashland, Nebraska.

Bachelor of Science in physics from Hastings College, Nebraska; Master of Science in aerospace engineering from Iowa State University.

ANDERSON, Michael P., Lieutenant Colonel, U.S. Air Force

Mission Specialist.

Born December 25, 1959, in Plattsburgh, New York. Hometown, Spokane, Washington.

Bachelor of Science in physics/astronomy from University of Washington; Master of Science in physics from Creighton University.

Flew on STS-89.

Cumulative hours of space flight are more than 211.

ARCHAMBAULT, Lee J., Lieutenant Colonel, U.S. Air Force

Pilot.

Born August 25, 1960, in Oak Park, Illinois. Hometown, Bellwood, Illinois.

Bachelor and Master of Science in aerospace/aeronautical engineering from University of Illinois-Urbana.

ASHBY, Jeffrey S., Captain, U.S. Navy

Pilot.

Born June 16, 1954, in Dallas, Texas. Hometown, Evergreen, Colorado.

Bachelor of Science in mechanical engineering from University of Idaho; Master of Science in aviation systems from University of Tennessee, Knoxville.

Flew on STS-93.

Cumulative hours of space flight are more than 188.

BAKER, Ellen S., Civilian

Mission Specialist.

Born April 27, 1953, in Fayetteville, North Carolina. Hometown, New York, New York.

Bachelor of Arts in geology from State University of New York at Buffalo;

Masters in public health from the University of Texas School of Public Health.

Doctor of Medicine from Cornell University

Flew on STS-34, STS-50 and STS-71.

Cumulative hours of space flight are more than 686.

CURRENT U.S. ASTRONAUTS

BAKER, Michael A., Captain, U.S. Navy

Pilot.

Born October 27, 1953, in Memphis, Tennessee. Hometown, Lemoore, California.

Bachelor of Science in aerospace engineering from the University of Texas.

Flew on STS-43, STS-52, STS-68 and STS-81.

Cumulative hours of space flight are more than 965.

BARRY, Daniel T., Civilian

Mission Specialist.

Born December 30, 1953, in Norwalk, Connecticut. Hometown, South

Hadley, Massachusetts.

Bachelor of Science in electrical engineering from Cornell University; Master of Engineering, Master of Arts and a Doctor of Philosophy in electrical engineering and computer science from Princeton University; Doctor of Medicine from the University of Miami.

Flew on STS-72 and STS-96.

Cumulative hours of space flight are more than 449.

Cumulative EVA time is more than 14 hours.

BLOOMFIELD, Michael J., Lieutenant Colonel, U.S. Air Force

Pilot.

Born March 16, 1959, in Flint, Michigan. Hometown, Lake Fenton, Michigan.

Bachelor of Science in engineering mechanics from the U.S. Air Force Academy;

Master of Science in engineering management from Old Dominion University.

Flew on STS-86.

Cumulative hours of space flight are more than 259.

BOWERSOX, Kenneth D., Captain, U.S. Navy

Pilot.

Born November 14, 1956, in Portsmouth, Virginia. Hometown, Bedford, Indiana.

Bachelor of Science in aerospace engineering from the U.S. Naval Academy;

Master of Science in mechanical engineering from Columbia University.

Flew on STS-50, STS-61, STS-73 and STS-82.

Cumulative hours of space flight are more than 1,212.

BRADY, Charles E., Jr., Captain, U.S. Navy

Mission Specialist.

Born August 12, 1951, in Pinehurst, North Carolina. Hometown, Robbins, North Carolina.

Doctor of Medicine from Duke University.

Flew on STS-78.

Cumulative hours of space flight are more than 405.

BROWN, David M., Captain, U.S. Navy

Mission Specialist.

Born April 16, 1956, in Arlington, Virginia.

Bachelor of Science in biology from the College of William and Mary and a Doctor of Medicine from Eastern Virginia Medical School.

CURRENT U.S. ASTRONAUTS

BURBANK, Daniel C., Lieutenant Commander, U.S. Coast Guard

Mission Specialist.

Born July 27, 1961, in Manchester, Connecticut. Hometown, Tolland, Connecticut.

Bachelor of Science in electrical engineering from the U.S. Coast Guard Academy and a Master of Science in aeronautical science from Embry-Riddle Aeronautical University.

Flew on STS-106.

Cumulative hours of space flight are more than 283.

BURSCH, Daniel W., Captain, U.S. Navy

Mission Specialist.

Born July 25, 1957, in Bristol, Pennsylvania. Hometown, Vestal, New York.

Bachelor of Science in physics from the U.S. Naval Academy; Master of Science in engineering science from the Naval Postgraduate School.

Flew on STS-51, STS-68 and STS-77.

Cumulative hours of space flight are more than 746.

CABANA, Robert D., Colonel, U.S. Marine Corps (Retired)

Pilot.

Born January 23, 1949, in Minneapolis, Minnesota.

Bachelor of Science in mathematics from the U.S. Naval Academy.

Flew on STS-41, STS-53, STS-65 and STS-88.

Cumulative hours of space flight are more than 1,010.

CAGLE, Yvonne D., Lieutenant Colonel, U.S. Air Force

Mission Specialist.

Born in West Point, New York. Hometown, Novato, California.

Bachelor of Science in biochemistry from San Francisco State University and a Doctor of Medicine from the University of Washington.

CALDEIRO, Fernando (Frank), Civilian

Mission Specialist.

Born June 12, 1958, in Buenos Aires, Argentina. Hometown, Merritt Island, Florida.

Bachelor of Science in mechanical engineering from the University of Arizona, an A.A.S. in aerospace technology from the State University of New York at Farmingdale and a Master of Science in engineering management from the University of Central Florida.

CALDWELL, Tracy E., Civilian

Mission Specialist.

Born August 14, 1969, in Arcadia, California.

Bachelor of Science in chemistry from California State University-Fullerton; Doctor of Philosophy in physical chemistry from the University of California-Davis.

CURRENT U.S. ASTRONAUTS

CAMARDA, Charles J., Civilian

Mission Specialist.

Born May 8, 1952, in New York, New York.

Bachelor of Science in aerospace engineering from the Polytechnic Institute of New York, a Master of Science in engineering science from George Washington University and a Doctor of aerospace engineering from Virginia Polytechnic Institute and State University.

CAREY, Duane G., Lieutenant Colonel, U.S. Air Force

Pilot.

Born April 30, 1957, in St. Paul, Minnesota.

Bachelor of Science in aerospace engineering and mechanics and a Master of Science in aerospace engineering from the University of Minnesota-Minneapolis.

CHAMITOFF, Gregory E., Civilian

Mission Specialist.

Born August 6, 1962, in Montreal, Canada. Hometown, San Jose, California.

Bachelor of Science in electrical engineering from California Polytechnic State University; Master of Science in aeronautical engineering from California Institute of Technology; Doctor of Philosophy in aeronautics/astronautics from the Massachusetts Institute of Technology.

CHANG-DIAZ, Franklin R., Civilian

Mission Specialist.

Born April 5, 1950, in San Jose, Costa Rica.

Bachelor of Science in mechanical engineering from the University of Connecticut; Doctor of Philosophy in applied plasma physics from the Massachusetts Institute of Technology.

Flew on STS 61-C, STS-34, STS-46, STS-60, STS-75 and STS-91.

Cumulative hours of space flight are more than 1,269.

CHAWLA, Kalpana, Civilian

Mission Specialist.

Born July 1, 1961, in Karnal, India.

Bachelor of Science in aeronautical engineering from Punjab Engineering College; Master of Science in aerospace engineering from University of Texas at Arlington; Doctor of Philosophy in aerospace engineering from University of Colorado.

Flew on STS-87.

Cumulative hours of space flight are more than 376.

CHIAO, Leroy, Civilian

Mission Specialist.

Born August 28, 1960, in Milwaukee, Wisconsin. Hometown, Danville, California.

Bachelor of Science in chemical engineering from University of California, Berkeley; Master of Science and Doctor of Philosophy in chemical engineering from the University of California, Santa Barbara.

Flew on STS-65 and STS-72.

Cumulative hours of space flight are more than 567.

Cumulative EVA time is more than 13 hours.

CURRENT U.S. ASTRONAUTS

CHRETIEN, Jean-Loup J.M., Brigadier General, French Air Force

Mission Specialist.

Born August 20, 1938, in La Rochelle, France.

Educated at L'Ecole communale a Ploujean, the College Saint-Charles a Saint-Brieuc, and the Lycee de Morlaix. He received a master's degree in aeronautical engineering from the French Air Force Academy.

Flew on STS-86.

CLARK, Laurel B., Commander, U.S. Navy

Mission Specialist.

Born March 10, 1961, in Ames, Iowa. Hometown, Racine, Wisconsin.

Bachelor of Science in zoology and a Doctor of Medicine from the University of Wisconsin-Madison.

COCKRELL, Kenneth D., Civilian

Pilot.

Born April 9, 1950, in Austin, Texas. Hometown, Rockdale, Texas.

Bachelor of Science in mechanical engineering from the University of Texas;

Master of Science in aeronautical systems from the University of West Florida.

Flew on STS-56, STS-69 and STS-80.

Cumulative hours of space flight are more than 906.

COLEMAN, Catherine G., Lieutenant Colonel, U.S. Air Force

Mission Specialist.

Born December 14, 1960, in Charleston, South Carolina.

Bachelor of Science in chemistry from Massachusetts Institute of

Technology; Doctor of Philosophy in polymer science & engineering from University of Massachusetts.

Flew on STS-73 and STS-93.

Cumulative hours of space flight are more than 500.

COLLINS, Eileen M., Colonel, U.S. Air Force

Pilot.

Born November 19, 1956, in Elmira, New York.

Bachelor of Arts in math and economics from Syracuse University; Master

of Science in operations research from Stanford University; Master of Arts in space systems management from Webster University.

Flew on STS-63, STS-84 and STS-93.

Cumulative hours of space flight are more than 537.

CREAMER, Timothy J., Lieutenant Colonel, U. S. Army

Mission Specialist.

Born November 15, 1959, in Ft. Huachuca, Arizona. Hometown, Upper Marlboro, Maryland.

Bachelor of Science in chemistry from Loyola College in Baltimore, Maryland; Master of Science in physics from the Massachusetts Institute of Technology.

CURRENT U.S. ASTRONAUTS

CULBERTSON, Frank L., Jr., Captain, U.S. Navy (Retired)

Pilot.

Born May 15, 1949, in Charleston, South Carolina. Hometown, Holly Hill, South Carolina.

Bachelor of Science in aerospace engineering from the U.S. Naval Academy.

Flew on STS-38 and STS-51.

Cumulative hours of space flight are more than 354.

CURBEAM, Robert L., Jr., Commander, U.S. Navy

Pilot.

Born March 5, 1962, in Baltimore, Maryland.

Bachelor of Science in aerospace engineering from the United States Naval Academy; Master of Science in aeronautical engineering from the Naval Postgraduate School; degree of aeronautical and astronautical engineering from the Naval Postgraduate School.

Flew on STS-85.

Cumulative hours of space flight are more than 284.

CURRIE, Nancy J. (Sherlock), Lieutenant Colonel, U.S. Army

Mission Specialist.

Born December 29, 1958, in Wilmington, Delaware. Hometown, Troy, Ohio.

Bachelor of Arts in biological science from Ohio State; Master of Science in safety engineering from the University of Southern California; Doctor of Philosophy in industrial engineering from the University of Houston.

Flew on STS-57, STS-70 and STS-88.

Cumulative hours of space flight are more than 737.

DUFFY, Brian, Colonel, U.S. Air Force

Pilot.

Born June 20, 1953, in Boston, Massachusetts.

Bachelor of Science in mathematics from the U.S. Air Force Academy; Master of Science in systems management from the University of Southern California.

Flew on STS-45, STS-57 and STS-72.

Cumulative hours of space flight are more than 667.

DUNBAR, Bonnie J., Civilian

Mission Specialist.

Born March 3, 1949, in Sunnyside, Washington.

Bachelor and Master of Science in ceramic engineering from University of Washington; Doctor of Philosophy in mechanical/biomedical engineering from the University of Houston.

Flew on STS 61-A, STS-32, STS-50, STS-71 and STS-89.

Cumulative hours of space flight are more than 1,208.

CURRENT U.S. ASTRONAUTS

FERGUSON, Christopher J., Commander, U.S. Navy

Pilot.

Born September 1, 1961, in Philadelphia, Pennsylvania.

Bachelor of Science in mechanical engineering from Drexel University; Master of Science in aeronautical engineering from the Naval Postgraduate School.

FINCKE, Edward Michael “Mike”, Major, U.S. Air Force

Mission Specialist.

Born March 14, 1967, in Pittsburgh, Pennsylvania. Hometown, Emsworth, Pennsylvania.

Bachelor of Science in aeronautics and astronautics as well as earth, atmospheric and planetary sciences from the Massachusetts Institute of Technology and a Master of Science in aeronautics and astronautics from Stanford University.

FISHER, Anna L., Civilian

Mission Specialist.

Born August 24, 1949, in St. Albans, New York. Hometown, San Pedro, California.

Bachelor, Master of Science in chemistry and Doctor of Medicine from the University of California at Los Angeles.

Flew on STS 51-A.

Cumulative hours of space flight are more than 191.

FOALE, C. Michael, Civilian

Mission Specialist.

Born January 6, 1957, in Louth, England. Hometown, Cambridge, England.

Bachelor of Arts in physics and Doctor of Philosophy in laboratory astrophysics from Cambridge University.

Flew on STS-45, STS-56, STS-63, STS-84/Mir, Mir/STS-86 and STS-103.

Cumulative hours of space flight are more than 4,104.

Cumulative EVA time is more than 19 hours.

FOREMAN, Michael J., Commander, U.S. Navy

Mission Specialist.

Born March 29, 1957, in Columbus, Ohio. Hometown, Wadsworth, Ohio.

Bachelor of Science in aerospace engineering from the U.S. Naval Academy; Master of Science in aeronautical engineering from the Naval Postgraduate School.

FORRESTER, Patrick G., Lieutenant Colonel, U.S. Army

Mission Specialist.

Born March 31, 1957, in El Paso, Texas.

Bachelor of Science in applied sciences and engineering from the U.S. Military Academy and a Master of Science in mechanical and aerospace engineering from the University of Virginia.

CURRENT U.S. ASTRONAUTS

FOSSUM, Michael E., Civilian

Mission Specialist.

Born December 19, 1957, in Sioux Falls, South Dakota. Hometown, McAllen, Texas. Bachelor of Science in mechanical engineering from Texas A&M University; Master of Science in systems engineering from the Air Force Institute of Technology; Master of Science in physical science (space science) from the University of Houston-Clear Lake.

FRICK, Stephen N., Lieutenant Commander, U.S. Navy

Pilot.

Born September 30, 1964, in Pittsburgh, Pennsylvania.

Bachelor of Science in aerospace engineering from the U.S. Naval Academy and a Master of Science in aeronautical engineering from the U.S. Naval Postgraduate School.

GERNHARDT, Michael L., Civilian

Mission Specialist.

Born May 4, 1956, in Mansfield, Ohio.

Bachelor of Science in physics from Vanderbilt University; Master of Science and Doctor of Philosophy in bioengineering from the University of Pennsylvania.

Flew on STS-69, STS-83 and STS-94.

Cumulative hours of space flight are more than 731.

Cumulative EVA time is more than 6 hours.

GODWIN, Linda M., Civilian

Mission Specialist.

Born July 2, 1952, in Cape Girardeau, Missouri. Hometown, Jackson, Missouri.

Bachelor of Science in mathematics and physics from Southeast Missouri State; Master of Science and Doctor of Philosophy in physics from the University of Missouri.

Flew on STS-37, STS-59 and STS-76.

Cumulative hours of space flight are more than 634.

Cumulative EVA time is more than 6 hours.

GORIE, Dominic L., Captain, U.S. Navy

Pilot.

Born May 2, 1957, in Lake Charles, Louisiana.

Bachelor of Science in ocean engineering from the United States Naval Academy;

Master of Science in aviation systems from the University of Tennessee, Knoxville.

Flew on STS-91 and STS-99.

Cumulative hours of space flight are more than 504.

CURRENT U.S. ASTRONAUTS

GRUNSFELD, John M., Civilian

Mission Specialist.

Born October 10, 1958, in Chicago, Illinois.

Bachelor of Science in physics from the Massachusetts Institute of Technology; Master of Science and Doctor of Philosophy in physics from the University of Chicago.

Flew on STS-67, STS-81 and STS-103.

Cumulative hours of space flight are more than 835.

Cumulative EVA time is more than 16 hours.

HALSELL, James D., Jr., Lieutenant Colonel, U.S. Air Force

Pilot.

Born September 29, 1956, in Monroe, Louisiana.

Bachelor of Science in engineering from the U.S. Air Force Academy; Master of Science in management from Troy State University; Master of Science in space operations from the Air Force Institute of Technology.

Flew on STS-65, STS-74, STS-83, STS-94 and STS-101.

Cumulative hours of space flight are more than 1,257.

HAM, Kenneth T., Lt. Commander, U.S. Navy

Pilot.

Born December 12, 1964, in Plainfield, New Jersey.

Bachelor of Science aerospace engineering from the U.S. Naval Academy; Master of Science in aeronautical engineering from the Naval Postgraduate School.

HARBAUGH, Gregory J., Civilian

Mission Specialist.

Born April 15, 1956, in Cleveland, Ohio. Hometown, Willoughby, Ohio.

Bachelor of Science in aeronautical and astronautical engineering from Purdue University; Master of Science in physical science from the University of Houston-Clear Lake.

Flew on STS-39, STS-54, STS-71 and STS-82.

Cumulative hours of space flight are more than 817.

Cumulative EVA time is more than 11 hours.

HAWLEY, Steven A., Civilian

Mission Specialist.

Born December 12, 1951, in Ottawa, Kansas. Hometown, Salina, Kansas.

Bachelor of Arts in physics and astronomy from the University of Kansas; Doctor of Philosophy in astronomy and astrophysics from the University of California at Santa Cruz.

Flew on STS 41-D, STS 61-C, STS-31, STS-82 and STS-93.

Cumulative hours of space flight are more than 769.

CURRENT U.S. ASTRONAUTS

HELMS, Susan J., Colonel, U.S. Air Force

Mission Specialist.

Born February 26, 1958, in Charlotte, North Carolina. Hometown, Portland, Oregon.

Bachelor of Science in aeronautical engineering from the U.S. Air Force Academy;

Master of Science in aeronautics and astronautics from Stanford University.

Flew on STS-54, STS-64, STS-78 and STS-101.

Cumulative hours of space flight are more than 1,048.

HERRINGTON, John B., Commander, U.S. Navy

Mission Specialist.

Born September 14, 1958, in Wetumka, Oklahoma.

Bachelor of Science in applied mathematics from the University of Colorado at

Colorado Springs and a Master of Science in aeronautical engineering from the

U.S. Naval Postgraduate School.

HIGGINBOTHAM, Joan E., Civilian

Mission Specialist.

Born August 3, 1964, in Chicago, Illinois.

Bachelor of Science in electrical engineering from Southern Illinois University at

Carbondale; Masters of Science in management and in space systems from the

Florida Institute of Technology.

HIRE, Kathryn P., Commander, U.S. Naval Reserve

Mission Specialist.

Born August 26, 1959, in Mobile, Alabama.

Bachelor of Science in engineering and management from the U.S. Naval Academy;

Master of Science in space technology from the Florida Institute of Technology.

Flew on STS-90.

Cumulative hours of space flight are more than 381.

HOBBAUGH, Charles O., Major, U.S. Marine Corps

Pilot.

Born November 5, 1961, in Bar Harbor, Maine.

Bachelor of Science in aerospace engineering from the U.S. Naval Academy.

HOROWITZ, Scott J., Lieutenant Colonel, U.S. Air Force

Pilot.

Born March 24, 1957, in Philadelphia, Pennsylvania. Hometown,

Thousand Oaks, California.

Bachelor of Science in engineering from California State University at Northridge;

Master of Science and Doctor of Philosophy in aerospace engineering from the

Georgia Institute of Technology.

Flew on STS-75, STS-82 and STS-101.

Cumulative hours of space flight are more than 853.

CURRENT U.S. ASTRONAUTS

HUSBAND, Rick D., Lieutenant Colonel, U.S. Air Force

Pilot.

Born July 12, 1957, in Amarillo, Texas.

Bachelor of Science in mechanical engineering from Texas Tech University; Master of Science in mechanical engineering from California State University.

Flew on STS-96.

Cumulative hours of space flight are more than 235.

IVINS, Marsha S., Civilian

Mission Specialist.

Born April 15, 1951, in Baltimore, Maryland.

Bachelor of Science in aerospace engineering from the University of Colorado.

Flew on STS-32, STS-46, STS-62 and STS-81.

Cumulative hours of space flight are more than 1,032.

JERNIGAN, Tamara E., Civilian

Mission Specialist.

Born May 7, 1959, in Chattanooga, Tennessee.

Bachelor of Science in physics and Master of Science in engineering science from Stanford University; Master of Science in astronomy from the University of California at Berkeley; Doctor of Philosophy in space physics and astronomy from Rice University.

Flew on STS-40, STS-52, STS-67, STS-80 and STS-96.

Cumulative hours of space flight are more than 1,513.

Cumulative EVA time is more than 7 hours.

JETT, Brent W., Commander, U.S. Navy

Pilot.

Born October 5, 1958, in Pontiac, Michigan. Hometown, Ft. Lauderdale, Florida.

Bachelor of Science in aerospace engineering from the U.S. Naval Academy; Master of Science in aeronautical engineering from the U.S. Naval Postgraduate School.

Flew on STS-72 and STS-81.

Cumulative hours of space flight are more than 458.

JOHNSON, Gregory C., Civilian

Pilot.

Born July 30, 1954, in Seattle, Washington.

Bachelor of Science in aerospace engineering from the University of Washington.

JOHNSON, Gregory H., Lieutenant Colonel, U.S. Air Force

Pilot.

Born May 12, 1962, in Upper Ruislip, Middlesex, United Kingdom.

Bachelor of Science in aeronautical engineering from the U.S. Air Force Academy;

Master of Science in flight structures engineering from Columbia University.

CURRENT U.S. ASTRONAUTS

JONES, Thomas D., Civilian

Mission Specialist.

Born January 22, 1955, in Baltimore, Maryland. Hometown, Essex, Maryland.

Bachelor of Science in basic sciences from the U.S. Air Force Academy; Doctor of Philosophy in planetary science from the University of Arizona.

Flew on STS-59, STS-68 and STS-80.

Cumulative hours of space flight are more than 963.

KAVANDI, Janet L., Civilian

Mission Specialist.

Born July 17, 1959, in Springfield, Missouri.

Bachelor of Science in chemistry from Missouri Southern State College; Master of Science in chemistry from the University of Missouri; Doctor of Philosophy in analytical chemistry from the University of Washington.

Flew on STS-91 and STS-99.

Cumulative hours of space flight are more than 504.

KELLY, James M., Lieutenant Colonel, U.S. Air Force

Pilot.

Born May 14, 1964, in Burlington, Iowa.

Bachelor of Science in astronautical engineering from the U.S. Air Force Academy;

Master of Science in aerospace engineering from the University of Alabama.

KELLY, Mark E., Lieutenant Commander, U.S. Navy

Pilot.

Born February 21, 1964, in Orange, New Jersey. Hometown, West Orange, New Jersey.

Bachelor of Science in marine engineering and nautical science from the U.S.

Merchant Marine Academy and a Master of Science in aeronautical engineering from the U.S. Naval Postgraduate School.

KELLY, Scott J., Lieutenant Commander, U.S. Navy

Pilot.

Born February 21, 1964, in Orange, New Jersey.

Bachelor of Science in electrical engineering from the State University of New York

Maritime College and a Master of Science in aviation systems from the University of Tennessee, Knoxville.

Flew on STS-103.

Cumulative hours of space flight are more than 191.

KILRAIN, Susan Still, Lieutenant Commander, U.S. Navy

Pilot.

Born October 24, 1961, in Augusta, Georgia.

Bachelor of Science in aeronautical engineering from Embry-Riddle University;

Master of Science in aerospace engineering from the Georgia Institute of Technology.

Flew on STS-83 and STS-94.

Cumulative hours of space flight are more than 471.

CURRENT U.S. ASTRONAUTS

KREGEL, Kevin R., Civilian

Pilot.

Born September 16, 1956, in New York, New York. Hometown, Amityville, New York.

Bachelor of Science in astronautical engineering from the U.S. Air Force Academy;

Master of public administration from Troy State University.

Flew on STS-70, STS-78, STS-87 and STS-99.

Cumulative hours of space flight are more than 1,265.

LAWRENCE, Wendy B., Commander, U.S. Navy

Mission Specialist.

Born July 2, 1959, in Jacksonville, Florida.

Bachelor of Science in ocean engineering from the U. S. Naval Academy; Master of Science in ocean engineering from the Massachusetts Institute of Technology.

Flew on STS-67, STS-86 and STS-91.

Cumulative hours of space flight are more than 894.

LEE, Mark C., Colonel, U.S. Air Force

Mission Specialist.

Born August 14, 1952, in Viroqua, Wisconsin.

Bachelor of Science in civil engineering from the U.S. Air Force Academy; Master of Science in mechanical engineering from the Massachusetts Institute of Technology.

Flew on STS-30, STS-47, STS-64 and STS-82.

Cumulative hours of space flight are more than 789.

Cumulative EVA time is more than 26 hours.

LINDSEY, Steven W., Lieutenant Colonel, U.S. Air Force

Pilot.

Born August 24, 1960, in Arcadia, California. Hometown, Temple City, California.

Bachelor of Science in engineering sciences from the U.S. Air Force Academy;

Master of Science in aeronautical engineering from the Air Force Institute of Technology.

Flew on STS-87 and STS-95.

Cumulative hours of space flight are more than 589.

LINNEHAN, Richard M., Civilian

Mission Specialist.

Born in Lowell, Massachusetts.

Bachelor of Science in animal sciences from the University of New Hampshire; Doctor of Veterinary Medicine from Ohio State University College of Veterinary Medicine.

Flew on STS-78 and STS-90.

Cumulative hours of space flight are more than 787.

LOCKHART, Paul S., Lieutenant Colonel, U.S. Air Force

Pilot.

Born April 28, 1956, in Amarillo, Texas.

Bachelor of Arts in mathematics from Texas Tech University and a Master of Science in aerospace engineering from the University of Texas.

CURRENT U.S. ASTRONAUTS

LOPEZ-ALEGRIA, Michael E., Commander, U.S. Navy

Mission Specialist.

Born May 30, 1958, in Madrid, Spain. Hometowns, Madrid, Spain, and Mission Viejo, California.

Bachelor of Science in systems engineering from the U.S. Naval Academy; Master of Science in aeronautical engineering from the U.S. Naval Postgraduate School.

Flew on STS-73.

Cumulative hours of space flight are more than 381.

LORIA, Christopher J., Major, U.S. Marine Corps

Pilot.

Born July 9, 1960, in Newton, Massachusetts.

Bachelor of Science in general engineering from the U.S. Naval Academy.

LOVE, Stanley G., Civilian

Mission Specialist.

Born June 8, 1965, in San Diego, California. Hometown, Eugene, Oregon.

Bachelor of Science in physics from Harvey Mudd College; Master of Science and Doctor of Philosophy in astronomy from the University of Washington.

LU, Edward T., Civilian

Mission Specialist.

Born July 1, 1963, Springfield, Massachusetts. Hometowns, Honolulu, Hawaii, and Webster, New York.

Bachelor of Science in electrical engineering from Cornell University; Doctor of Philosophy in applied physics from Stanford University.

Flew on STS-84 and STS-106.

Cumulative hours of space flight are more than 504.

Cumulative EVA time is more than 6 hours.

LUCID, Shannon W., Civilian

Mission Specialist.

Born January 14, 1943, in Shanghai, China. Hometown, Bethany, Oklahoma.

Bachelor of Science in chemistry; Master of Science and Doctor of Philosophy in biochemistry from University of Oklahoma.

Flew on STS 51-G, STS-34, STS-43, STS-58, STS-76/Mir and Mir/STS-79.

Cumulative hours of space flight are more than 5,354.

MAGNUS, Sandra H., Civilian

Mission Specialist.

Born October 30, 1964, in Belleville, Illinois.

Bachelor of Science in physics and Master of Science in electrical engineering from the University of Missouri-Rolla, and a Doctor of Philosophy in materials science and engineering from the Georgia Institute of Technology.

CURRENT U.S. ASTRONAUTS

MASSIMINO, Michael J., Civilian

Mission Specialist.

Born August 19, 1962, in Oceanside, New York. Hometown, Franklin Square, New York.

Bachelor of Science in industrial engineering from Columbia University; Master of Science in mechanical engineering, Master of Science in technology and policy, a degree of mechanical engineer and Doctor of Philosophy in mechanical engineering from the Massachusetts Institute of Technology.

MASTRACCHIO, Richard A., Civilian

Mission Specialist.

Born February 11, 1960, in Waterbury, Connecticut.

Bachelor of Science in electrical engineering and computer science from the University of Connecticut, a Master of Science in electrical engineering from the Rensselaer Polytechnic Institute and a Master of Science in physical sciences from the University of Houston-Clear Lake.

Flew on STS-106.

Cumulative hours of space flight are more than 283.

McARTHUR, William S., Jr., Colonel, U.S. Army

Mission Specialist.

Born July 26, 1951, in Laurinburg, North Carolina. Hometown, Wakulla, North Carolina.

Bachelor of Science in applied science and engineering from the U.S. Military Academy; Master of Science in aerospace engineering from the Georgia Institute of Technology.

Flew on STS-58 and STS-74.

Cumulative hours of space flight are more than 532.

McCOOL, William C., Commander, U.S. Navy

Pilot.

Born September 23, 1961, in San Diego, California.

Bachelor of Science in applied science from the U.S. Naval Academy, a Master of Science in computer science from the University of Maryland and a Master of Science in aeronautical engineering from the U.S. Naval Postgraduate School.

MELROY, Pamela A., Lieutenant Colonel, U.S. Air Force

Pilot.

Born September 17, 1961, in Palo Alto, California. Hometown, Rochester, New York.

Bachelor of Science in physics and astronomy from Wellesley College; Master of Science in earth and planetary sciences from the Massachusetts Institute of Technology.

CURRENT U.S. ASTRONAUTS

MELVIN, Leland D., Civilian

Mission Specialist.

Born February 15, 1964, in Lynchburg, Virginia.

Bachelor of Science in chemistry from the University of Richmond; Master of Science in materials science engineering from the University of Virginia.

MORGAN, Barbara R., Civilian

Mission Specialist.

Born November 28, 1951, in McCall, Idaho.

Bachelor of Arts in human biology from Stanford University; teaching credentials from the College of Notre Dame in Belmont, California.

MORIN, Lee M., Captain, U.S. Navy

Mission Specialist.

Born September 9, 1952, in Manchester, New Hampshire.

Bachelor of Science in mathematical/electrical science from the University of New Hampshire; Master of Science in biochemistry, Doctor of Medicine and microbiology degrees from New York University, and Master of public health from the University of Alabama at Birmingham.

NEWMAN, James H., Civilian

Mission Specialist.

Born October 16, 1956, in Trust Territory of the Pacific Islands. Hometown, San Diego, California.

Bachelor of Arts in physics from Dartmouth College; Master of Arts and a Doctor of Philosophy in physics from Rice University.

Flew on STS-51, STS-69 and STS-88.

Cumulative hours of space flight are more than 779.

Cumulative EVA time is more than 28 hours.

NORIEGA, Carlos I., Lieutenant Colonel, U.S. Marine Corps

Mission Specialist.

Born October 8, 1959, in Lima, Peru. Hometown, Santa Clara, California.

Bachelor of Science in computer science from the University of Southern California;

Master of Science in computer science from the Naval Postgraduate School;

Master of Science in space systems operations from the Naval Postgraduate School.

Flew on STS-84.

Cumulative hours of space flight are more than 221.

NOWAK, Lisa M., Lieutenant Commander, U.S. Navy

Mission Specialist.

Born May 10, 1963, in Washington, D. C.

Bachelor of Science in aerospace engineering from the U.S. Naval Academy and a Master of Science in aeronautical engineering and a degree of aeronautical and astronautical engineer from the U.S. Naval Postgraduate School.

CURRENT U.S. ASTRONAUTS

OCHOA, Ellen, Civilian

Mission Specialist.

Born May 10, 1958, in Los Angeles, California. Hometown, La Mesa, California.

Bachelor of Science in physics from San Diego State University; Master of Science and Doctor of Philosophy in electrical engineering from Stanford University.

Flew on STS-56, STS-66 and STS-96.

Cumulative hours of space flight are more than 719.

OEFELEIN, William A., Lieutenant Commander, U.S. Navy

Pilot.

Born March 29, 1965, in Ft. Belvoir, Virginia. Hometown, Anchorage, Alaska.

Bachelor of Science in electrical engineering from Oregon State University; Master of Science in aviation systems from the University of Tennessee Space Institute.

OLIVAS, John D., Civilian

Mission Specialist.

Born May 25, 1966, in North Hollywood, California. Hometown, El Paso, Texas.

Bachelor of Science in mechanical engineering from the University of Texas-El Paso;

Master of Science in mechanical engineering from the University of Houston;

Doctor of Philosophy in mechanical engineering & materials science from Rice University.

PARAZYNSKI, Scott E., Civilian

Mission Specialist.

Born July 28, 1961, in Little Rock, Arkansas. Hometowns, Palo Alto, California, and Evergreen, Colorado.

Bachelor of Science in biology and Doctor of Medicine from Stanford University.

Flew on STS-66, STS-86 and STS-95.

Cumulative hours of space flight are more than 735.

Cumulative EVA time is more than 5 hours.

PATRICK, Nicholas J.M., Civilian

Mission Specialist.

Born March 22, 1964, in Saltburn, North Yorkshire, United Kingdom. Hometowns, London, England and Rye, New York.

Bachelor and Master of Arts in engineering from the University of Cambridge, England; Master of Science and Doctor of Philosophy in mechanical engineering from the Massachusetts Institute of Technology.

PETTIT, Donald R., Civilian

Mission Specialist.

Born April 20, 1955, in Silverton, Oregon.

Bachelor of Science in chemical engineering from Oregon State University and a

Doctor in chemical engineering from the University of Arizona.

CURRENT U.S. ASTRONAUTS

PHILLIPS, John L., Civilian

Mission Specialist.

Born April 15, 1951, in Fort Belvoir, Virginia. Hometown, Scottsdale, Arizona.

Bachelor of Science in mathematics and Russian from the U.S. Naval Academy; a

Master of Science in aeronautical systems from the University of West Florida; and

a Master of Science in geophysics and space physics, and a Doctor in geophysics

and space physics from the University of California-Los Angeles.

POINDEXTER, Alan G., Lieutenant Commander, U.S. Navy

Pilot.

Born November 5, 1961, in Pasadena, California. Hometown, Rockville, Maryland.

Bachelor of aerospace engineering from the Georgia Institute of Technology; Master

of Science in aeronautical engineering from the Naval Postgraduate School.

POLANSKY, Mark L., Civilian

Pilot.

Born June 2, 1956, in Paterson, New Jersey. Hometown, Edison, New Jersey.

Bachelor of Science in aeronautical and astronautical engineering and a Master of

Science in aeronautics and astronautics from Purdue University.

PRECOURT, Charles J., Colonel, U.S. Air Force (Retired)

Pilot.

Born June 29, 1955, in Waltham, Massachusetts. Hometown, Hudson,

Massachusetts.

Bachelor of Science in aeronautical engineering from the U.S. Air Force Academy;

Master of Science in engineering management from Golden Gate University;

Master of Arts in national security affairs and strategic studies from the United

States Naval War College.

Flew on STS-55, STS-71, STS-84 and STS-91.

Cumulative hours of space flight are more than 932.

READDY, William F., Captain, U.S. Naval Reserve

Pilot.

Born January 24, 1952, in Quonset Point, Rhode Island. Hometown,

McLean, Virginia.

Bachelor of Science in aerospace engineering from the U.S. Naval Academy.

Flew on STS-42, STS-51 and STS-79.

Cumulative hours of space flight are more than 672.

REILLY, James F., Civilian

Mission Specialist.

Born March 18, 1954, Mountain Home Air Force Base, Idaho. Hometown, Mesquite,

Texas.

Bachelor of Science, Master of Science and Doctor of Philosophy in geosciences

from the University of Texas-Dallas

Flew on STS-89.

Cumulative hours of space flight are more than 211.

CURRENT U.S. ASTRONAUTS

REISMAN, Garrett E., Civilian

Mission Specialist.

Born February 10, 1968, in Morristown, New Jersey. Hometown, Parsippany, New Jersey.

Bachelor of Science in economics and in mechanical engineering from the University of Pennsylvania; Master of Science and Doctor of Philosophy in mechanical engineering from the California Institute of Technology.

RICHARDS, Paul W., Civilian

Mission Specialist.

Born May 20, 1964, in Scranton, Pennsylvania. Hometown, Dunmore, Pennsylvania.

Bachelor of Science in mechanical engineering from Drexel University and a Master of Science in mechanical engineering from the University of Maryland.

ROBERTSON, Patricia Hilliard, Civilian

Mission Specialist.

Born March 12, 1963, in Indiana, Pennsylvania. Hometown, Homer City, Pennsylvania.

Bachelor of Science in biology from Indiana University of Pennsylvania; Doctor of Medicine from the Medical College of Pennsylvania.

ROBINSON, Stephen K., Civilian

Mission Specialist.

Born October 26, 1955, in Sacramento, California.

Bachelor of Science in mechanical/aeronautical engineering from the University of California; Master of Science in mechanical engineering from Stanford University; Doctor of Philosophy in mechanical engineering from Stanford University.

Flew on STS-85 and STS-95.

Cumulative hours of space flight are more than 497.

ROMINGER, Kent V., Captain, U.S. Navy

Pilot.

Born August 7, 1956, in Del Norte, Colorado.

Bachelor of Science in civil engineering from Colorado State University; Master of Science in aeronautical engineering from the U.S. Naval Postgraduate School.

Flew on STS-73, STS-80, STS-85 and STS-96.

Cumulative hours of space flight are more than 1,325.

ROSS, Jerry L., Colonel, U.S. Air Force (Retired)

Mission Specialist.

Born January 20, 1948, in Crown Point, Indiana.

Bachelor and Master of Science in mechanical engineering from Purdue University.

Flew on STS 61-B, STS-27, STS-37, STS-55, STS-74 and STS-88.

Cumulative hours of space flight are more than 1,132.

Cumulative EVA time is more than 44 hours.

CURRENT U.S. ASTRONAUTS

RUNCO, Mario, Jr., Lieutenant Commander, U.S. Navy (Retired)

Mission Specialist.

Born January 26, 1952, in Bronx, New York. Hometown, Bronx, New York.

Bachelor of Science in meteorology and physical oceanography from City College of New York; Master of Science in meteorology from Rutgers University; Doctor of Philosophy in earth science from the City College of New York.

Flew on STS-44, STS-54 and STS-77.

Cumulative hours of space flight are more than 551.

SELLERS, Piers J., Civilian

Mission Specialist.

Born April 11, 1955, in Crowborough, Sussex, United Kingdom.

Bachelor of Science in ecological science from the University of Edinburgh (Scotland), and Doctor of Philosophy in biometeorology from Leeds University (United Kingdom).

SHEPHERD, William M., Captain, U.S. Navy

Mission Specialist.

Born July 26, 1949, in Oak Ridge, Tennessee. Hometown, Babylon, New York.

Bachelor of Science in aerospace engineering from the U.S. Naval Academy; degree of ocean engineer and Master of Science in mechanical engineering from the Massachusetts Institute of Technology.

Flew on STS-27, STS-41, and STS-52.

Cumulative hours of space flight are more than 440.

SMITH, Steven L., Civilian

Mission Specialist.

Born December 30, 1958, in Phoenix, Arizona. Hometown, San Jose, California.

Bachelor and Master of Science in electrical engineering and Masters in business administration from Stanford University.

Flew on STS-68, STS-82 and STS-103.

Cumulative hours of space flight are more than 700.

Cumulative EVA time is more than 35 hours.

STEFANYSHYN-PIPER, Heidemarie M., Lieutenant Commander, U.S. Navy

Mission Specialist.

Born February 7, 1963, in St. Paul, Minnesota.

Bachelor and a Master of Science in mechanical engineering from the Massachusetts Institute of Technology.

STURCKOW, Frederick W., Major, U.S. Marine Corps

Pilot.

Born August 11, 1961, in La Mesa, California. Hometown, Lakeside, California.

Bachelor of Science in mechanical engineering from California Polytechnic State University.

Flew on STS-88.

Cumulative hours of space flight are more than 283.

CURRENT U.S. ASTRONAUTS

SWANSON, Steven R., Civilian

Mission Specialist.

Born December 3, 1960, in Syracuse, New York. Hometown, Steamboat Springs, Colorado.

Bachelor of Science in engineering physics from the University of Colorado-Boulder;

Master of Applied Science in computer systems from Florida Atlantic University;

Doctor of Philosophy in computer science from Texas A&M University.

TANI, Daniel M., Civilian

Mission Specialist.

Born February 1, 1961, in Ridley Park, Pennsylvania. Hometown, Lombard, Illinois.

Bachelor and Master of Science in mechanical engineering from the Massachusetts Institute of Technology.

TANNER, Joseph R., Civilian

Mission Specialist.

Born January 21, 1950, in Danville, Illinois.

Bachelor of Science in mechanical engineering from the University of Illinois.

Flew on STS-66 and STS-82.

Cumulative hours of space flight are more than 502.

Cumulative EVA time is more than 14 hours.

THOMAS, Andrew S. W., Civilian

Mission Specialist.

Born December 18, 1951, in Adelaide, Australia.

Bachelor of engineering and Doctor of Philosophy in mechanical engineering from the University of Adelaide (Australia).

Flew on STS-77, STS-89/Mir and Mir/STS-91.

Cumulative hours of space flight are more than 3,615.

THOMAS, Donald A., Civilian

Mission Specialist.

Born May 6, 1955, in Cleveland, Ohio.

Bachelor of Science in physics from Case Western Reserve University; Master of Science and Doctor of Philosophy in materials science from Cornell University.

Flew on STS-65, STS-70, STS-83 and STS-94.

Cumulative hours of space flight are more than 1,040.

VOSS, James S., Colonel, U.S. Army (Retired)

Mission Specialist.

Born March 3, 1949, in Cordova, Alabama. Hometown, Opelika, Alabama.

Bachelor of Science in aerospace engineering from Auburn University; Master of Science in aerospace engineering sciences from the University of Colorado.

Flew on STS-44, STS-53, STS-69 and STS-101.

Cumulative hours of space flight are more than 838.

Cumulative EVA time is more than 6 hours.

CURRENT U.S. ASTRONAUTS

VOSS, Janice E., Civilian

Mission Specialist.

Born October 8, 1956, in South Bend, Indiana. Hometown, Rockford, Illinois.

Bachelor of Science in engineering science from Purdue University; Master of Science in electrical engineering and Doctor of Philosophy in aeronautics and astronautics from the Massachusetts Institute of Technology.

Flew on STS-57, STS-63, STS-83, STS-94 and STS-99.

Cumulative hours of space flight are more than 1,178.

WALHEIM, Rex J., Lieutenant Colonel, U.S. Air Force

Mission Specialist.

Born October 10, 1962, in Redwood City, California. Hometown, San Carlos, California.

Bachelor of Science in mechanical engineering from the University of California-Berkeley and Master of Science in industrial engineering from the University of Houston.

WALZ, Carl E., Colonel, U.S. Air Force

Mission Specialist.

Born September 6, 1955, in Cleveland, Ohio.

Bachelor of Science in physics from Kent State University; Master of Science in solid state physics from John Carroll University.

Flew on STS-51, STS-65 and STS-79.

Cumulative hours of space flight are more than 833.

Cumulative EVA time is more than 7 hours.

WEBER, Mary E., Civilian

Mission Specialist.

Born August 24, 1962, in Cleveland, Ohio. Hometown, Bedford Heights, Ohio.

Bachelor of Science in chemical engineering from Purdue University; Doctor of Philosophy in physical chemistry from the University of California at Berkeley.

Flew on STS-70 and STS-101.

Cumulative hours of space flight are more than 450.

WETHERBEE, James D., Captain, U.S. Navy

Pilot.

Born November 27, 1952, in Flushing, New York. Hometown, Huntington Station, New York.

Bachelor of Science in aerospace engineering from the University of Notre Dame.

Flew on STS-32, STS-52, STS-63 and STS-86.

Cumulative hours of space flight are more than 955.

CURRENT U.S. ASTRONAUTS

WHEELLOCK, Douglas H., Major, U.S. Army

Mission Specialist.

Born May 5, 1960, in Binghamton, New York. Hometown, Windsor, New York.

Bachelor of Science in applied science from the U.S. Military Academy; Master of Science in aerospace engineering from the Georgia Institute of Technology.

WHITSON, Peggy A., Civilian

Mission Specialist.

Born February 9, 1960, in Mt. Ayr, Iowa.

Bachelor of Science in biology/chemistry from Iowa Wesleyan College and Doctor of Biochemistry from Rice University.

WILCUTT, Terrence W., Colonel, U.S. Marine Corps

Pilot.

Born October 31, 1949, in Russellville, Kentucky. Hometown, Louisville, Kentucky.

Bachelor of Arts in math from Western Kentucky University.

Flew on STS-68, STS-79, STS-89, and STS-106.

Cumulative hours of space flight are more than 1,007.

WILLIAMS, Jeffrey N., Lieutenant Colonel, U.S. Army

Mission Specialist.

Born January 18, 1958, in Superior, Wisconsin. Hometown, Winter, Wisconsin

Bachelor of Science in applied sciences/engineering from the U.S. Military Academy;

Master of Science in aeronautical engineering and degree of aeronautical engineer from the U.S. Naval Postgraduate School; Master of Arts degree in National security and strategic studies from the U.S. Naval War College.

Flew on STS-101.

Cumulative hours of space flight are more than 236.

WILLIAMS, Sunita L., Lieutenant Commander, U.S. Navy

Mission Specialist.

Born September 19, 1965, in Euclid, Ohio. Hometown, Needham, Massachusetts.

Bachelor of Science in physical science from the U.S. Naval Academy; Master of Science in engineering management from the Florida Institute of Technology.

WILSON, Stephanie D., Civilian

Mission Specialist.

Born September 27, 1966, in Boston, Massachusetts.

Bachelor of Science in engineering science from Harvard University and a Master of Science in aerospace engineering from the University of Texas.

CURRENT U.S. ASTRONAUTS

WISOFF, Peter J. K., Civilian

Mission Specialist.

Born August 16, 1958, in Norfolk, Virginia.

Bachelor of Science in physics from University of Virginia; Master of Science and

Doctor of Philosophy in applied physics from Stanford University.

Flew on STS-57, STS-68 and STS-81.

Cumulative hours of space flight are more than 754.

Cumulative EVA time is more than 5 hours.

WOLF, David A., Civilian

Mission Specialist.

Born August 23, 1956, in Indianapolis, Indiana.

Bachelor of Science in electrical engineering from Purdue University; Doctor of

Medicine from Indiana University.

Flew on STS-58, STS-86/Mir and Mir/STS-89.

Cumulative hours of space flight are more than 3,408.

WOODWARD, Neil W., III, Lieutenant Commander, U.S. Navy

Mission Specialist.

Born July 26, 1962, in Chicago, Illinois.

Bachelor of Science in physics from the Massachusetts Institute of Technology;

Master of Arts in physics from the University of Texas-Austin.

YOUNG, John W., Captain, U.S. Navy (Retired)

Pilot.

Born September 24, 1930, in San Francisco, California.

Bachelor of Science in aeronautical engineering from Georgia Institute of Technology.

Flew on Gemini 3, Gemini 10, Apollo 10, Apollo 16, STS-1 and STS-9.

Cumulative hours of space flight are more than 835.

Cumulative EVA time is more than 20 hours (on the moon.)

ZAMKA, George D., Lieutenant Colonel, U.S. Marine Corp.

Pilot.

Born June 29, 1962, in Jersey City, New Jersey. Hometown, Rochester, Michigan.

Bachelor of Science in mathematics from the U.S. Naval Academy; Master of Science in engineering management from the Florida Institute of Technology.

INTERNATIONAL ASTRONAUTS CURRENTLY IN THE U.S. SPACE PROGRAM

CLERVOY, Jean-François, European Space Agency

Mission Specialist.

Born November 19, 1958, in Longeville-les-Metz, France. Hometown, Toulouse, France.

Baccalauréat from Collège Militaire de Saint Cyr l'Ecole; passed Math. Sup. and Math Spé. M' at Prytanée Militaire, La Flèche. Graduated from Ecole Polytechnique, Paris; Ecole Nationale Supérieure de l'Aéronautique et de l'Espace, Toulouse; and Ecole du Personnel Navigant d'Essais et de Reception, Istres, as a Flight Test Engineer.

Flew on STS-66, STS-84 and STS-103.

Cumulative hours of space flight are more than 674.

DOI, Takao, Japanese Space Agency

Mission Specialist.

Born September 18, 1954 in Tokyo, Japan.

Bachelor and Master of Engineering from the University of Tokyo; Doctor of Philosophy in aerospace engineering from the University of Tokyo.

Flew on STS-87.

Cumulative hours of space flight are more than 376.

Cumulative EVA time is more than 12 hours.

DUQUE, Pedro, European Space Agency

Mission Specialist.

Born March 14, 1963, in Madrid, Spain.

Degree of Aeronautical Engineering from the Escuela Tecnica Superior de Ingenieros Aeronauticos, Universidad Politecnica, Madrid, Spain.

Flew on STS-95.

Cumulative hours of space flight are more than 213.

EYHARTS, Léopold, European Space Agency

Born April 28, 1957, in Biarritz, France.

Graduated as engineer from the Salon de Provence Air Force Academy.

FUGLESANG, Christer, European Space Agency

Mission Specialist.

Born March 18, 1957, in Stockholm, Sweden.

Master of Science in engineering physics from the Royal Institute of Technology (KTH), Stockholm, Sweden; Doctor of Philosophy in experimental particle physics from the University of Stockholm in 1987.

INTERNATIONAL ASTRONAUTS CURRENTLY IN THE U.S. SPACE PROGRAM

GARNEAU, Marc, Canadian Space Agency

Mission Specialist.

Born February 23, 1949, in Quebec City, Canada.

Bachelor of Science in engineering physics from the Royal Military College of Kingston, Ontario, Canada, and Doctor of Philosophy in electrical engineering from the Imperial College of Science and Technology, London, England. Attended the Canadian Forces Command and Staff College of Toronto.

Flew on STS-41G and STS-77.

Cumulative hours of space flight are more than 437.

GUIDONI, Umberto, European Space Agency

Mission Specialist.

Born August 18, 1954, in Rome, Italy.

Bachelor of Science in physics and Doctor of Philosophy in astrophysics from the University of Rome.

Flew as a Payload Specialist on STS-75

Cumulative hours of space flight are more than 377.

HADFIELD, Chris A., Canadian Space Agency, Colonel, Canadian Air Force

Mission Specialist.

Born August 29, 1959, in Sarnia, Ontario, Canada.

Bachelor degree in mechanical engineering, Royal Military College, Kingston, Ontario, Canada; post-graduate research at University of Waterloo, Ontario, Canada; Master of Science in aviation systems, University of Tennessee.

Flew on STS-74.

Cumulative hours of space flight are more than 196.

MACLEAN, Steve, Canadian Space Agency

Mission Specialist.

Born December 14, 1954, in Ottawa, Ontario, Canada.

Bachelor of Science in honors physics, and Doctor of Philosophy in physics from York University, Toronto, Canada.

Flew as a payload specialist on STS-52.

Cumulative hours of space flight are more than 236.

MOHRI, Mamoru, Japanese Space Agency

Mission Specialist.

Born January 28, 1948, in Hokkaido, Japan.

Bachelor and Master of Science in physical science from Hokkaido University, Doctor of Philosophy in physical science from South Australia State Flinders University.

Flew on STS-47 (Payload Specialist) and STS-99 (Mission Specialist).

Cumulative hours of space flight are more than 459.

INTERNATIONAL ASTRONAUTS CURRENTLY IN THE U.S. SPACE PROGRAM

NESPOLI, Paolo, European Space Agency

Mission Specialist.

Born April 6, 1957, in Milan, Italy. Hometown, Verano Brianza, Milan, Italy.

Bachelor of Science in aerospace engineering and Master of Science in aeronautics and astronautics from the Polytechnic University of New York. Laurea in Ingegneria Meccanica, Università degli Studi di Firenze.

NICOLLIER, Claude, European Space Agency

Mission Specialist.

Born September 2, 1944, in Vevey, Switzerland.

Bachelor of Science in physics from the University of Lausanne, Switzerland; Master of Science in astrophysics from University of Geneva.

Flew on STS-46, STS-61, STS-75 and STS-103.

Cumulative hours of space flight are more than 1000.

Cumulative EVA time is more than 8 hours.

NOGUCHI, Soichi, Japanese Space Agency

Mission Specialist.

Born April 15, 1965, in Yokohama, Japan. Hometown, Chigasaki, Kanagawa, Japan.

Bachelor and Master of aeronautical engineering from the University of Tokyo, Japan.

PAYETTE, Julie, Canadian Space Agency

Mission Specialist.

Born October 20, 1963 in Montreal, Quebec, Canada.

International baccalaureate, United World International College of the Atlantic, South Wales, UK; Bachelor of engineering from McGill University, Masters of Applied Science from the University of Toronto,

Flew on STS-96.

Cumulative hours of space flight are more than 235.

PERRIN, Philippe, Lieutenant. Colonel, French Air Force (ESA)

Mission Specialist.

Born January 6, 1963, in Meknes, Morocco. Hometown, Avignon, Provence.

Degree as Ingenieur Polytechnicien from the Ecole Polytechnique, Palaiseau, France.

PONTES, Marcos, Major, Brazil Air Force (BSA)

Mission Specialist.

Born March 11, 1963 in Bauru, Brazil.

Bachelor of Science degree in aeronautical engineering from the Instituto Tecnológico de Aeronáutica University, and Master of Science in systems engineering from the Navy Post Graduate School in Monterey, California.

INTERNATIONAL ASTRONAUTS CURRENTLY IN THE U.S. SPACE PROGRAM

SCHLEGEL, Hans, European Space Agency

Mission Specialist.

Born August 3, 1951, in Überlingen, Germany. Hometown, Aachen, Germany.

Masters degree in Physics from Aachen University.

Flew as a payload specialist on STS-55.

Cumulative hours of space flight are more than 222.

THIELE, Gerhard P.J., European Space Agency

Mission Specialist.

Born September 2, 1953, in Heidenhelm/Brenz, Germany. Hometown, Bruhl, Nordrhein-Westfalen

Studied physics at Ludwig-Maximilians Universitat, Munich and Ruprecht-Karls-Universitat in Heidelberg. Doctoral thesis at the Institute for Environmental Physics of Heidelberg Universitat.

Flew on STS-99.

Cumulative hours of space flight are more than 268.

TOGNINI Michel, Brigadier General, French Air Force ESA

Mission Specialist.

Born September 30, 1949, in Vincennes, France.

Educated at Lycee de Cachan, Paris. Received an advanced mathematics degree from Epa Grenoble and an engineering degree from the French Air Force Academy.

Flew on STS-93.

Cumulative hours of space flight are more than 456.

TRYGGVASON, Bjarni V., Canadian Space Agency

Mission Specialist.

Born September 21, 1945, in Reykjavik, Iceland. Hometown, Vancouver, B.C.

Bachelor of Applied Science in engineering physics from the University of British Columbia, and postgraduate work in engineering with a specialization in applied mathematics and fluid dynamics at the University of Western Ontario.

Flew as a payload specialist on STS-85.

Cumulative hours of space flight are more than 284.

VITTORI, Roberto, European Space Agency.

Born October 15, 1964, in Viterbo, Italy.

Graduate of the Italian Airforce Academy. Currently attending the IV year of a Physics degree at the University of Perugia.

WAKATA, Koichi, Japanese Space Agency

Mission Specialist.

Born August 1, 1963, in Omiya, Saitama, Japan.

Bachelor of Science in aeronautical engineering and Master of Science in applied mechanics from Kyushu University.

Flew on STS-72 and STS-92.

Cumulative hours of space flight are more than 332.

INTERNATIONAL ASTRONAUTS CURRENTLY IN THE U.S. SPACE PROGRAM

WILLIAMS, Dafydd (David) Rhys, Canadian Space Agency

Mission Specialist.

Born May 16, 1954 in Saskatoon, Saskatchewan, Canada.

Bachelor of Science in biology, Master of Science in physiology, Doctor of Medicine and master of surgery from McGill University, Montreal.

Flew on STS-90

Cumulative hours of space flight are more than 381.

RUSSIAN COSMONAUTS CURRENTLY IN THE U.S SPACE PROGRAM
(Trained by the Russian Space Agency)
Flight times include non-U.S. flight information from Cosmonaut bio sheets

BUDARIN, Nikolai, Russian Space Agency.

Born April 29, 1953, at Kirya Settlement, Chuvashia, Russia.

Graduated from the S. Ordzhonikidze Moscow Aviation Institute with a mechanical engineering diploma.

Flew on STS-71 (Mir crew upload.)

DEZHUROV, Vladimir, Russian Space Agency.

Born June 30, 1962, at Yavas Settlement, Zubovo-Polyansk district, Mordovia, Russia.

Graduated from the S.I. Gritsevis Khalikov Higher Military Aviation School with a flight engineering diploma.

Flew on STS-71 (Mir crew download.)

Cumulative days of space flight are more than 115.

GIDZENKO, Yuri, Russian Space Agency.

Born March 26, 1962, in Elanets, Elanetsky district, Nikolayev region.

Graduated from Kharkov Military Aviation College of Pilots and from Moscow State University of land-surveying and cartography.

KONDAKOVA, Elena, Russian Space Agency.

Born March 30, 1957, in Mitischi, Moscow region.

Graduated from Moscow Bauman High Technical College.

Flew on STS-84.

Cumulative hours of space flight are more than 178.

KRIKALEV, Sergei, Russian Space Agency.

Born August 27, 1958, in Leningrad (St. Petersburg,) Russia.

Received a mechanical engineering degree from the Leningrad (St. Petersburg) Mechanical Institute.

Flew on STS-60 and STS-88.

Cumulative space flight time is more than 1 year, 3 months and 19 days.

Flight time includes 7 EVAs.

LONCHAKOV, Yuri, Russian Space Agency.

Born March 4, 1965, in Balkhash, Dzhezkazkansk Region.

Graduated from Oresburg Air Force Pilot School as a pilot-engineer and Zhukovski Air Force Academy as pilot-engineer-researcher.

MALENCHENKO, Yuri, Russian Space Agency.

Born December 22, 1961, in Svetlovodsk, Kirovograd region, Ukraine.

Graduated from S.I. Gritsevets Kharkov Higher Military Aviation School with a pilot-engineer's diploma; graduated from the Zhukovsky Air Force Engineering Academy.

Flew on STS-106.

Cumulative days of space flight are more than 137.

Cumulative EVA time is more than 18 hours.

RUSSIAN COSMONAUTS CURRENTLY IN THE U.S SPACE PROGRAM
(Trained by the Russian Space Agency)
Flight times include non-U.S. flight information from Cosmonaut bio sheets

MORUKOV, Boris, Russian Space Agency.

Born October 1, 1950, in Moscow, Russia.

Doctor of Medicine from the 2nd Moscow Medical Institute (now Moscow Medical University;) Doctor of Philosophy in space, aviation and naval medicine from the Institute for Biomedical Problems.

Flew on STS-106.

Cumulative days of space flight are more than 11.

ONUFRIENKO, Yuriy, Russian Space Agency.

Born February 6, 1961, in Rzasnoe, Zolochiv district, Kharkov region, Ukraine.

Graduated from the V.M. Komarov Eisk Higher Military Aviation School for Pilots with a pilot-engineer's diploma; graduated from Moscow State University with a degree in cartography.

Cumulative days of space flight are more than 193.

POLESCHUK, Alexander, Russian Space Agency.

Born October 30, 1953, in Chermkhovo, Irkutsk region, Russia.

Graduated from S. Ordzhonikidze Moscow Aviation Institute with a mechanical engineering diploma.

Cumulative days of space flight are more than 179.

Cumulative EVA time is more than 9 hours.

RYUMIN, Valery, Russian Space Agency.

Born August 16, 1939, in the city of Komsomolsk-on-Amur in the Russian Far East.

Graduated from the Kaliningrad Mechanical Engineering Technical College with the specialty "Cold Working of Metal;" graduated from the Department of Electronics and Computing Technology of the Moscow Forestry Engineering Institute with the specialty "Spacecraft Control Systems."

Flew on STS-91.

Cumulative days of space flight are more than 362.

SHARIPOV, Salizhan, Russian Space Agency.

Born August 24, 1964, in Uzgen, Oshsk region, Kirghizia.

Graduated from the Air Force Pilot School; graduated from Moscow State University with a degree in cartography.

Flew on STS-89.

Cumulative hours of space flight are more than 211.

Cumulative EVA time is more than 5 hours.

SOLOVYEV, Anatoly, Russian Space Agency.

Born January 16, 1948, in Riga.

Graduated from the Lenin Komsomol Chernigov Higher Military Aviation School.

Flew on STS-71 (Mir crew upload.)

Cumulative days of space flight are more than 188.

Cumulative EVA time is more than 5 hours.

RUSSIAN COSMONAUTS CURRENTLY IN THE U.S SPACE PROGRAM
(Trained by the Russian Space Agency)
Flight times include non-U.S. flight information from Cosmonaut bio sheets

STREKALOV, Gennady, Russian Space Agency.

Born October 26, 1940, in the Mytishohi Moscow region, Russia.

Graduated from N.E. Bauman Moscow Higher Technical School with an engineer's diploma.

Flew on STS-71 (Mir crew download.)

Cumulative days of space flight are more than 153.

TITOV, Vladimir, Russian Space Agency.

Born January 1, 1947, in Sretensk, in the Chita Region of Russia.

Graduated from the Higher Air Force College in Chernigov in the Ukraine, and the Yuri Gagarin Air Force Academy.

Flew on STS-63 and STS-86.

Cumulative days of space flight are more than 387.

Cumulative EVA time is more than 18 hours.

TOKAREV, Valery, Russian Space Agency.

Born October 29, 1952, at the town of Kap-Yar, Astrakhan region, Russia.

Master's degree in state administration from the National Economy Academy affiliated with the Russian Federation Government in Moscow.

Flew on STS-96.

Cumulative hours of space flight are more than 235.

TURIN, Mikhail, Russian Space Agency.

Born March 2, 1960, in Kolomna, Russia.

Graduated from the Moscow Aviation Institute with a degree in engineering and a specialization in creating mathematical models related to mechanical flight. He is currently doing graduate work in his field of research.

USACHEV, Yuriy, Russian Space Agency.

Born October 9, 1957, in Donetsk, Rostov on Don Region, Russia.

Graduated from the Moscow Aviation Institute with an engineering diploma.

Flew on STS-101.

Cumulative days of space flight are more than 376.

Space flights include 6 EVAs.

2000 U.S. ASTRONAUT CANDIDATE CLASS

ANTONELLI, Dominic A., Lieutenant, U.S. Navy

Pilot.

Born August 23, 1967, in Detroit, Michigan.

Bachelor of Science in aeronautics & astronautics from the Massachusetts Institute of Technology; Masters of Science in aeronautics & astronautics from the University of Washington.

BARRATT, Michael R., Civilian

Mission Specialist.

Born April 16, 1959, in Vancouver, Washington.

Bachelor of Science in zoology from the University of Washington; Doctor of Medicine from Northwestern University; Masters of Science in aerospace medicine from Wright State University.

BEHNKEN, Robert L., Captain, U.S. Air Force

Mission Specialist.

Born July 7, 1970, in Creve Coeur, Missouri.

Bachelors of Science in physics & mechanical engineering from Washington University; Masters of Science and Doctor of Philosophy in mechanical engineering from the California Institute of Technology.

BOE, Eric A., Major, U.S. Air Force

Pilot.

Born October 1, 1964, in Miami, Florida.

Bachelor of Science in aeronautical engineering from the U.S. Air Force Academy; Master of Science in electrical engineering from the Georgia Institute of Technology.

BOWEN, Stephen G., Lieutenant Commander, U.S. Navy

Mission Specialist.

Born February 13, 1964, in Cohasset, Massachusetts

Bachelor of Science in electrical engineering from the U.S. Naval Academy; degree of Ocean Engineer from the Massachusetts Institute of Technology.

DREW, B. Alvin, Lieutenant Colonel, U.S. Air Force

Mission Specialist.

Born November 5, 1962, in Washington, D.C.

Bachelor of Science in physics & astronautical engineering from the U.S. Air Force Academy; Master of Science in aeronautical science from Embry-Riddle Aeronautical University.

FEUSTEL, Andrew J., Civilian

Mission Specialist.

Born August 25, 1965, in Lancaster, Pennsylvania.

Bachelor of Science in solid earth sciences and Master of Science in geophysics from Purdue University; Doctor of Philosophy in seismology from Queen's University-Canada.

2000 U.S. ASTRONAUT CANDIDATE CLASS

FORD, Kevin A., Lieutenant Colonel, U.S. Air Force
Pilot.

Born July 7, 1960, in Portland, Indiana.

Bachelor of Science in aerospace engineering from the University of Notre Dame;
Master of Science in international relations from Troy State University; Master of
Science in aerospace engineering from the University of Florida; Doctor of
Philosophy in astronautical engineering from the Air Force Institute of Technology.

GARAN, Ronald J., Jr., Lieutenant Colonel, U.S. Air Force
Pilot.

Born October 30, 1961, in Yonkers, New York.

Bachelor of Science in economics from the State University of New York; Master of
Aeronautical Science in aeronautics from Embry-Riddle Aeronautical University;
Master of Science in aerospace engineering from the University of Florida.

GOOD, Michael T., Lieutenant Colonel, U.S. Air Force
Mission Specialist.

Born October 13, 1962, in Parma, Ohio.

Bachelor and Master of Science in aerospace engineering from the University of Notre
Dame.

HURLEY, Douglas G., Major, U.S. Marine Corps
Pilot.

Born October 21, 1966, in Endicott, New York.

Bachelor of Science in civil engineering from Tulane University; Master of Science in
aviation systems from the University of Tennessee Space Institute (expected.)

KOPRA, Timothy L., Major, U.S. Army
Mission Specialist.

Born April 9, 1963, in Austin, Texas.

Bachelor of Science in computer science from the U.S. Military Academy; Master of
Science in aerospace engineering from the Georgia Institute of Technology.

McARTHUR, K. Megan, Civilian
Mission Specialist.

Born August 30, 1971, in Honolulu, Hawaii.

Bachelor of Science in aerospace engineering from the University of California-Los
Angeles; Doctor of Philosophy in oceanography from the University of California-San
Diego (expected.)

NYBERG, Karen L., Civilian
Mission Specialist.

Born October 7, 1969, in Parkers Prairie, Minnesota.

Bachelor of Science in mechanical engineering from the University of North Dakota;
Master of Science and Doctor of Philosophy in mechanical engineering from the
University of Texas.

2000 U.S. ASTRONAUT CANDIDATE CLASS

STOTT, Nicole P., Civilian

Mission Specialist.

Born November 19, 1962, in Albany, New York.

Bachelor of Science in mathematics from the U.S. Air Force Academy; Master of Aeronautical Science from Embry-Riddle Aeronautical University.

VIRTS, Terry W., Jr., Major, U.S. Air Force

Pilot.

Born December 1, 1967, in Baltimore, Maryland.

Bachelor of Science in mathematics from the U.S. Air Force Academy; Master of Aeronautical Science in aeronautics from Embry-Riddle Aeronautical University.

WILMORE, Barry E., Lieutenant Commander, U.S. Navy

Pilot.

Born December 29, 1962, in Murfreesboro, Tennessee.

Bachelor and Master of Science in electrical engineering from Tennessee Technical University; Master of Science from the University of Tennessee-Knoxville.

FORMER U.S. ASTRONAUTS

ADAMSON, James C., Colonel, U.S. Army (Retired)

Born March 3, 1946, in Warsaw, New York.

Bachelor of Science in engineering from the U.S. Military Academy; Master of Science in aerospace engineering from Princeton University. Graduate of the U.S. Navy Test Pilot School.

Flew on STS-28 and STS-43.

Cumulative hours of space flight are more than 334.

AKERS, Thomas D., Lieutenant Colonel, U.S. Air Force (Retired)

Born May 20, 1951, in St. Louis, Missouri. Hometown, Eminence, Missouri.

Bachelor and Master of Science in applied mathematics from the University of Missouri-Rolla.

Flew on STS-41, STS-49, STS-61 and STS-79.

Cumulative hours of space flight are more than 814.

Cumulative EVA time is more than 29 hours.

ALDRIN, Buzz, Colonel, U.S. Air Force (Retired)

Born January 20, 1930, in Montclair, New Jersey.

Bachelor of Science in mechanical engineering from the U.S. Military Academy;

Doctor of Science in astronautics from the Massachusetts Institute of Technology.

Flew on Gemini 12 and Apollo 11.

Cumulative hours of space flight are more than 289.

Cumulative EVA time is more than 2 hours.

ALLEN, Andrew M., Lieutenant Colonel, U.S. Marine Corps (Retired)

Born August 4, 1955, in Philadelphia, Pennsylvania.

Bachelor of Science in mechanical engineering from Villanova University.

Flew on STS-46, STS-62 and STS-75.

Cumulative hours of space flight are more than 904.

ALLEN, Joseph P., Civilian

Born June 27, 1937, in Crawfordsville, Indiana.

Bachelor of Arts in mathematics and physics from DePauw University;

Master of Science and Doctor of Philosophy in physics from Yale University.

Flew on STS-5 and STS 51-A.

Cumulative hours of space flight are more than 313.

Cumulative EVA time is more than 12 hours.

ANDERS, William A., Major General, U.S. Air Force Reserve (Retired)

Born October 17, 1933, in Hong Kong.

Bachelor of Science in nuclear engineering from the U.S. Naval Academy; Master of Science in nuclear engineering from the Air Force Institute of Technology.

Flew on Apollo 8.

Cumulative hours of space flight are more than 147.

FORMER U.S. ASTRONAUTS

APT, Jerome, Civilian

Born April 28, 1949, in Springfield, Massachusetts. Hometown, Pittsburgh, Pennsylvania.

Bachelor of Arts in physics from Harvard College; Doctor of philosophy in physics from the Massachusetts Institute of Technology.

Flew on STS-37, STS-47, STS-59 and STS-79.

Cumulative hours of space flight are more than 847.

Cumulative EVA time is more than 10 hours.

ARMSTRONG, Neil A., Civilian

Born August 5, 1930, in Wapakoneta, Ohio.

Bachelor of Science in aeronautical engineering from Purdue University;

Master of Science in aerospace engineering from the University of Southern California.

Flew on Gemini 8 and Apollo 11.

Cumulative hours of space flight are more than 205.

Cumulative EVA time is more than 2 hours.

BAGIAN, James P., Civilian

Mission Specialist.

Born February 22, 1952, in Philadelphia, Pennsylvania.

Bachelor of Science in mechanical engineering from Drexel University;

Doctor of Medicine from Thomas Jefferson University.

Flew on STS-29 and STS-40.

Cumulative hours of space flight are more than 337.

BEAN, Alan L., Captain, U.S. Navy (Retired)

Born March 15, 1932, in Wheeler, Texas.

Bachelor of Science in aeronautical engineering from the University of Texas.

Flew on Apollo 12 and Skylab 3.

Cumulative hours of space flight are more than 1,671.

Cumulative EVA time is more than 10 hours.

BLAHA, John E., Colonel, U.S. Air Force (Retired)

Born August 26, 1942, in San Antonio, Texas.

Bachelor of Science in engineering science from the U.S. Air Force Academy;

Master of Science in astronautical engineering from Purdue University.

Flew on STS-29, STS-33, STS-43, STS-58, STS-79/Mir and Mir/STS-81.

Cumulative hours of space flight are more than 3,864.

BLUFORD, Guion S., Jr., Colonel, U.S. Air Force (Retired)

Born November 22, 1942, in Philadelphia, Pennsylvania.

Bachelor of Science in aerospace engineering from Pennsylvania State

University; Master of Science and Doctor of Philosophy in aerospace engineering from the Air Force Institute of Technology; Master of Business Administration from the University of Houston-Clear Lake.

Flew on STS-8, STS 61-A, STS-39, and STS-53.

Cumulative hours of space flight are more than 688.

FORMER U.S. ASTRONAUTS

BOBKO, Karol J., Colonel, U.S. Air Force (Retired)

Born December 23, 1937, in New York, New York.

Bachelor of Science from the U.S. Air Force Academy; Master of Science in aerospace engineering from the University of Southern California.

Flew on STS-6, STS 51-D, and STS-51-J.

Cumulative hours of space flight are more than 386.

BOLDEN, Charles F., Jr., Brigadier General, U.S. Marine Corps

Born August 19, 1946, in Columbia, South Carolina.

Bachelor of Science in electrical science from the U.S. Naval Academy; Master of Science in systems management from the University of Southern California.

Flew on STS-61C, STS-31, STS-45, and STS-60.

Cumulative hours of space flight are more than 680.

BORMAN, Frank, Colonel, U.S. Air Force (Retired)

Born March 14, 1928, in Gary, Indiana.

Bachelor of Science from the U.S. Military Academy; Master of Science in aeronautical engineering from the California Institute of Technology.

Flew on Gemini 7 and Apollo 8.

Cumulative hours of space flight are more than 477.

BRAND, Vance D., Civilian

Born May 9, 1931, in Longmont, Colorado.

Bachelor of Science in business and aeronautical engineering from the University of Colorado; Master of Science in business administration from the University of California at Los Angeles.

Flew on Apollo-Soyuz Test Project, STS-5, STS 41-B, and STS-35.

Cumulative hours of space flight are more than 746.

BRANDENSTEIN, Daniel C., Captain, U.S. Navy (Retired)

Born January 17, 1943, in Watertown, Wisconsin.

Bachelor of Science in mathematics and physics from the University of Wisconsin - River Falls

Flew on STS-8, STS 51-G, STS-32, and STS-49.

Cumulative hours of space flight are more than 788.

BRIDGES, Roy D., Jr., Major General, U.S. Air Force (Retired)

Born July 19, 1943, in Atlanta, Georgia.

Bachelor of Science in engineering science from the U.S. Air Force Academy;

Master of Science in astronautics from Purdue University.

Flew on STS 51-F.

Cumulative hours of space flight are more than 190.

BROWN, Curtis L., Jr., Lieutenant Colonel, U.S. Air Force (Retired)

Born March 11, 1956, in Elizabethtown, North Carolina.

Bachelor of Science in electrical engineering from the U.S. Air Force Academy.

Flew on STS-47, STS-66, STS-77, STS-85, STS-95 and STS-103.

Cumulative hours of space flight are more than 1,381.

FORMER U.S. ASTRONAUTS

BROWN, Mark N., Colonel, U.S. Air Force (Retired)

Born November 18, 1951, in Valparaiso, Indiana.

Bachelor of Science in aeronautical and astronautical engineering from

Purdue University; Master of Science in astronautical engineering from the U.S. Air Force Institute of Technology.

Flew on STS-28 and STS-48.

Cumulative hours of space flight are more than 249.

BUCHLI, James F., Colonel, U.S. Marine Corps (Retired)

Born June 20, 1945, in New Rockford, North Dakota. Hometown, Fargo, North Dakota.

Bachelor of Science in aeronautical engineering from the U.S. Naval Academy; Master of Science in aeronautical engineering systems from the University of West Florida.

Flew on STS 51-C, STS 61-A, STS-29, and STS-48.

Cumulative hours of space flight are more than 490.

BULL, John S., Civilian

Born September 25, 1934, in Memphis, Tennessee.

Bachelor of Science in mechanical engineering from Rice University; Master of Science and Doctor of Philosophy in aeronautical engineering from Stanford University.

CAMERON, Kenneth D., Colonel, U.S. Marine Corps (Retired)

Born November 29, 1949, in Cleveland, Ohio.

Bachelor and Master of Science in aeronautics and astronautics from the Massachusetts Institute of Technology.

Flew on STS-37, STS-56 and STS-74.

Cumulative hours of space flight are more than 562.

CARPENTER, M. Scott, Commander, U.S. Navy (Retired)

Born May 1, 1925, in Boulder, Colorado.

Bachelor of Science in aeronautical engineering from the University of Colorado.

Flew on Mercury 7.

Cumulative hours of space flight are more than 4.

CARR, Gerald P., Colonel, U.S. Marine Corps (Retired)

Born August 22, 1932, in Denver, Colorado.

Bachelor of Science in mechanical engineering from the University of Southern California; Bachelor of Science in aeronautical engineering from the U.S. Naval Postgraduate School; Master of Science in aeronautical engineering from Princeton University; honorary Doctor of Science in aeronautical engineering from Parks College, St. Louis University.

Flew on Skylab 4.

Cumulative hours of space flight are more than 2,017.

Cumulative EVA time is more than 15 hours.

FORMER U.S. ASTRONAUTS

CASPER, John H., Colonel, U.S. Air Force

Born July 9, 1943, in Greenville, South Carolina. Hometown, Gainesville, Georgia.
Bachelor of Science in engineering science from the U.S. Air Force Academy;
Master of Science in astronautics from Purdue University.
Flew on STS-36, STS-54, STS-62 and STS-77.
Cumulative hours of space flight are more than 825.

CERNAN, Eugene A., Captain, U.S. Navy (Retired)

Born March 14, 1934, in Chicago, Illinois.
Bachelor of Science in electrical engineering from Purdue University; Master
of Science in aeronautical engineering from the U.S. Navy Postgraduate School.
Flew on Gemini 9, Apollo 10, and Apollo 17.
Cumulative hours of space flight are more than 566.
Cumulative EVA time is more than 24 hours.

CHAPMAN, Philip K., Civilian

Born March 5, 1935, in Melbourne, Australia.
Bachelor of Science in physics and mathematics from the University of Sydney;
Master of Science in aeronautics and astronautics and Doctor of Science in
instrumentation from the Massachusetts Institute of Technology.

CHILTON, Kevin P., Brigadier General, U.S. Air Force

Born November 3, 1954, in Los Angeles, California.
Bachelor of Science in engineering sciences from the U.S. Air Force Academy;
Master of Science in mechanical engineering from Columbia University.
Flew on STS-49, STS-59 and STS-76.
Cumulative hours of space flight are more than 704.

CLEAVE, Mary L., Civilian

Born February 5, 1947, in Southampton, New York.
Bachelor of Science in biological sciences from Colorado State University;
Master of Science in microbial ecology and Doctor of Philosophy in civil and
environmental engineering from Utah State University.
Flew on STS 61-B and STS-30.
Cumulative hours of space flight are more than 262.

CLIFFORD, Michael R., Lieutenant Colonel, U.S. Army (Retired)

Born October 13, 1952, in San Bernardino, California. Hometown, Ogden, Utah.
Bachelor of Science from the U.S. Military Academy; Master of Science in
aerospace engineering from the Georgia Institute of Technology.
Flew on STS-53, STS-59 and STS-76.
Cumulative hours of space flight are more than 666.
Cumulative EVA time is more than 6 hours.

FORMER U.S. ASTRONAUTS

COATS, Michael L., Captain, U.S. Navy (Retired)

Born January 16, 1946, in Sacramento, California.

Bachelor of Science from the U.S. Naval Academy; Master of Science in administration of science and technology from George Washington University; Master of Science in aeronautical engineering from the U.S. Naval Postgraduate School.

Flew on STS 41-D, STS-29, and STS-39.

Cumulative hours of space flight are more than 463.

COLLINS, Michael, Major General, U.S. Air Force Reserve (Retired)

Born October 31, 1930, in Rome, Italy.

Bachelor of Science from the U.S. Military Academy.

Flew on Gemini 10 and Apollo 11.

Cumulative hours of space flight are more than 265.

Cumulative EVA time is more than 1 hour.

COOPER, L. Gordon, Jr., Colonel, U.S. Air Force (Retired)

Born March 6, 1927, in Shawnee, Oklahoma.

Bachelor of Science from the U.S. Air Force Institute of Technology; Doctor of Science in aeronautical engineering from Oklahoma City University.

Flew on Mercury 9 and Gemini 5.

Cumulative hours of space flight are more than 225.

COVEY, Richard O., Colonel, U.S. Air Force (Retired)

Born August 1, 1946, in Fayetteville, Arkansas. Hometown, Fort Walton Beach, Florida.

Bachelor of Science in engineering sciences from the U.S. Air Force Academy; Master of Science in aeronautics and astronautics from Purdue University.

Flew on STS 51-I, STS-26, STS-38, and STS-61.

Cumulative hours of space flight are more than 645.

CREIGHTON, John O., Captain, U.S. Navy (Retired)

Born April 28, 1943, in Orange, Texas.

Bachelor of Science from the U.S. Naval Academy; Master of Science in administration of science and technology from George Washington University.

Flew on STS 51-G, STS-36, and STS-48.

Cumulative hours of space flight are more than 404.

CRIPPEN, Robert L., Captain, U.S. Navy (Retired)

Born September 11, 1937, in Beaumont, Texas.

Bachelor of Science in aerospace engineering from the University of Texas.

Flew on STS-1, STS-7, STS 41-C, and STS 41-G.

Cumulative hours of space flight are more than 565.

CUNNINGHAM, Walter, Colonel, U.S. Marine Corps Reserve (Retired)

Born March 16, 1932, in Creston, Iowa.

Bachelor and Master of Arts in physics from the University of California - Los Angeles. Advanced management program, Harvard Graduate School of Business.

Flew on Apollo 7.

Cumulative hours of space flight are more than 263.

FORMER U.S. ASTRONAUTS

DAVIS, N. Jan, Civilian

Mission Specialist.

Born November 1, 1953, in Cocoa Beach, Florida. Hometown, Huntsville, Alabama.

Bachelor of Science in applied biology from the Georgia Institute of Technology;

Bachelor of Science in mechanical engineering from Auburn University; Master of Science and Doctor of Philosophy in mechanical engineering from the University of Alabama in Huntsville.

Flew on STS-47, STS-60 and STS-85.

Cumulative hours of space flight are more than 673.

DUKE, Charles M., Jr., Brigadier General, U.S. Air Force (Retired)

Born October 3, 1935, in Charlotte, North Carolina.

Bachelor of Science in naval sciences from the U.S. Naval Academy; Master of Science in aeronautics from the Massachusetts Institute of Technology.

Flew on Apollo 16.

Cumulative hours of space flight are more than 265.

Cumulative EVA time is more than 20 hours.

EDWARDS, Joe F, Jr., Commander, U.S. Navy (Retired)

Born February 3, 1958, in Richmond, Virginia. Hometowns, Roanoke and Lineville, Alabama.

Bachelor of Science in aerospace engineering from the United States Naval Academy; Master of Science in aviation systems from the University of Tennessee, Knoxville.

Flew on STS-89.

Cumulative hours of space flight are more than 211.

ENGLAND, Anthony W., Civilian

Born May 15, 1942, in Indianapolis, Indiana.

Bachelor and Master of Science in earth sciences from the Massachusetts Institute of Technology; Doctor of Philosophy in geophysics from the Massachusetts Institute of Technology.

Flew on STS 51-F.

Cumulative hours of space flight are more than 190.

ENGLE, Joe H., Major General, Air National Guard/U.S. Air Force (Retired)

Born August 26, 1932, in Dickinson County, Kansas.

Bachelor of Science in aeronautical engineering from the University of Kansas.

Flew 16 flights in USAF/NASA X-15 - 3 flights into space; flew on Space Shuttle approach and landing tests 2 and 4, STS-2, and STS 51-L.

Cumulative hours of space flight are more than 224.

FORMER U.S. ASTRONAUTS

FABIAN, John M., Colonel, U.S. Air Force (Retired)

Born January 28, 1939, in Goosecreek, Texas.

Bachelor of Science in mechanical engineering from Washington State University; Master of Science in aerospace engineering from the U.S. Air Force Institute of Technology; Doctor of Philosophy in aeronautics and astronautics from the University of Washington.

Flew on STS-7 and STS 51-G.

Cumulative hours of space flight are more than 316.

FISHER, William F., Civilian

Born April 1, 1946, in Dallas, Texas.

Bachelor of Arts from Stanford University; Master of Science in engineering from the University of Houston; Doctor of Medicine from the University of Florida.

Flew on STS 51-L.

Cumulative hours of space flight are more than 170.

Cumulative EVA time is more than 11 hours.

FULLERTON, Charles G., Colonel, U.S. Air Force (Retired)

Born October 11, 1936, in Rochester, New York.

Bachelor and Master of Science in mechanical engineering from the California Institute of Technology.

Flew Space Shuttle approach and landing tests 1, 3 and 5; STS-3 and STS 51-F.

Cumulative hours of space flight are more than 382.

GARDNER, Dale A., Captain, U.S. Navy (Retired)

Born November 8, 1948, in Fairmont, Minnesota.

Bachelor of Science in engineering physics from the University of Illinois.

Flew on STS-8 and STS 51-A.

Cumulative hours of space flight are more than 336.

Cumulative EVA time is more than 11 hours.

GARDNER, Guy S., Colonel, U.S. Air Force (Retired)

Born January 6, 1948, in Altavista, Virginia.

Bachelor of Science in engineering sciences, astronautics and mathematics from the U.S. Air Force Academy; Master of Science in astronautics from Purdue University.

Flew on STS-27 and STS-35.

Cumulative hours of space flight are more than 320.

GARRIOTT, Owen K., Civilian

Born November 22, 1930, in Enid, Oklahoma.

Bachelor of Science in electrical engineering from the University of Oklahoma; Master of Science and Doctor of Philosophy in electrical engineering from Stanford University.

Flew on Skylab 3 and STS-9.

Cumulative hours of space flight are more than 1,674.

Cumulative EVA time is more than 13 hours.

FORMER U.S. ASTRONAUTS

GEMAR, Charles D., Lieutenant Colonel, U.S. Army

Born August 4, 1955, in Yankton, South Dakota. Hometown, Scotland, South Dakota.
Bachelor of Science in engineering from the U.S. Military Academy.
Flew on STS-38, STS-48 and STS-62.
Cumulative hours of space flight are more than 581.

GIBSON, Edward G., Civilian

Born November 8, 1936, in Buffalo, New York.
Bachelor of Science in engineering from the University of Rochester; Master of Science in engineering from the California Institute of Technology; Doctor of Philosophy in engineering and physics from the California Institute of Technology.
Flew on Skylab 4.
Cumulative hours of space flight are more than 2,017
Cumulative EVA time is more than 15 hours.

GIBSON, Robert L., Captain, U.S. Navy (Retired)

Born October 30, 1946, in Cooperstown, New York. Hometown, Lakewood, California.
Bachelor of Science in aeronautical engineering from California Polytechnic Institute.
Flew on STS 41-B, STS 61-C, STS-27, STS-47 and STS-71.
Cumulative hours of space flight are more than 868.

GLENN, John H., Jr., Colonel, U.S. Marine Corps (Retired)

Born July 18, 1921, in Cambridge, Ohio.
Bachelor of Science in engineering from Muskingum College.
Flew on Mercury 6, and STS-95.
Cumulative hours of space flight are more than 217.

GORDON, Richard F., Jr., Captain, U.S. Navy (Retired)

Born October 5, 1929, in Seattle, Washington.
Bachelor of Science in chemistry from the University of Washington; honorary Doctor of Science from Niagara University.
Flew on Gemini 11 and Apollo 12.
Cumulative hours of space flight are more than 315.
Cumulative EVA time is more than 1 hour.

GRABE, Ronald J., Colonel, U.S. Air Force (Retired)

Born June 13, 1945, in New York, New York.
Bachelor of Science in engineering science from the U.S. Air Force Academy.
Flew on STS 51-J, STS-30, STS-42, and STS-57.
Cumulative hours of space flight are more than 627.

GRAVELINE, Duane F., Civilian

Born March 2, 1931, in Newport, Vermont.
Bachelor of Science and Doctor of Medicine from the University of Vermont;
Master of Science in public health from Johns Hopkins University.

FORMER U.S. ASTRONAUTS

GREGORY, Frederick D., Colonel, U.S. Air Force (Retired)

Born January 7, 1941, in Washington, D.C.

Bachelor of Science from the U.S. Air Force Academy; Master of Science in information systems from George Washington University.

Flew on STS 51-B, STS-33, and STS-44.

Cumulative hours of space flight are more than 455.

GREGORY, William G., Lieutenant Colonel, U.S. Air Force (Retired)

Born May 14, 1957, in Lockport, New York.

Bachelor of Science in engineering science from the U.S. Air Force Academy;

Master of Science in engineering mechanics from Columbia University; Master of Science in management from Troy State University.

Flew on STS-67.

Cumulative hours of space flight are more than 399.

GUTIERREZ, Sidney M., Lieutenant Colonel, U.S. Air Force (Retired)

Born June 27, 1951, Albuquerque, New Mexico.

Bachelor of Science in aeronautical engineering from the U.S. Air Force Academy;

Master of Arts in management from Webster College.

Flew on STS-40 and STS-59.

Cumulative hours of space flight are more than 488.

HAISE, Fred W., Jr., Civilian

Born November 14, 1933, in Biloxi, Mississippi.

Bachelor of Science in aeronautical engineering from the University of Oklahoma.

Flew on Apollo 13 and Space Shuttle approach and landing tests 1, 3, and 5.

Cumulative hours of space flight are more than 142.

HAMMOND, L. Blaine, Jr., Colonel, U.S. Air Force (Retired)

Born January 16, 1952, in Savannah, Georgia. Hometown, St. Louis, Missouri.

Bachelor of Science in engineering science and mechanics from the U.S. Air Force Academy; Master of Science in engineering science and mechanics from the Georgia Institute of Technology.

Flew on STS-39 and STS-64.

Cumulative hours of space flight are more than 462.

HARRIS, Bernard A., Jr., Civilian

Born June 26, 1956, in Temple, Texas.

Bachelor of Science in biology from the University of Houston; Doctor of Medicine from Texas Tech University.

Flew on STS-55 and STS-63.

Cumulative hours of space flight are more than 438.

Cumulative EVA time is more than 4 hours.

FORMER U.S. ASTRONAUTS

HART, Terry J., Civilian

Born October 27, 1946, in Pittsburgh, Pennsylvania.

Bachelor of Science from Lehigh University; Master of Science in mechanical engineering from the Massachusetts Institute of Technology; Master of Science in electrical engineering from Rutgers University; honorary Doctor of Engineering from Lehigh University.

Flew on STS 41-C.

Cumulative hours of space flight are more than 167.

HARTSFIELD, Henry W., Jr., Colonel, U.S. Air Force (Retired)

Born November 21, 1933, in Birmingham, Alabama.

Bachelor of Science in physics from Auburn University; Master of Science in engineering science from the University of Tennessee.

Flew on STS-4, STS 41-D, and STS 61-A.

Cumulative hours of space flight are more than 482.

HAUCK, Frederick H., Captain, U.S. Navy (Retired)

Born April 11, 1941, in Long Beach, California.

Bachelor of Science in physics from Tufts University; Master of Science in nuclear engineering from the Massachusetts Institute of Technology.

Flew on STS-7, STS 51-A, and STS-26.

Cumulative hours of space flight are more than 435.

HENRICKS, Terence T. "Tom", Colonel, U.S. Air Force (Retired)

Born July 5, 1952, in Bryan, Ohio. Hometown, Woodville, Ohio.

Bachelor of Science in civil engineering from the U.S. Air Force Academy; Master of Arts in public administration from Golden Gate University.

Flew on STS-44, STS-55, STS-70 and STS-78.

Cumulative hours of space flight are more than 1,026.

HIEB, Richard J., Civilian

Born September 21, 1955, in Jamestown, North Dakota.

Bachelor of Arts in mathematics and physics from Northwest Nazarene College; Master of Science in aerospace engineering from the University of Colorado.

Flew on STS-39, STS-49, and STS-65.

Cumulative hours of space flight are more than 766.

Cumulative EVA time is more than 17 hours.

HILMERS, David C., Colonel, U.S. Marine Corps (Retired)

Born January 28, 1950, in Clinton, Iowa.

Bachelor of Arts in mathematics from Cornell University; Master of Science in electrical engineering from the U.S. Naval Postgraduate School.

Flew on STS 51-J, STS-26, STS-36, and STS-42.

Cumulative hours of space flight are more than 494.

FORMER U.S. ASTRONAUTS

HOFFMAN, Jeffrey A., Civilian

Born November 2, 1944, in Brooklyn, New York. Hometown, Scarsdale, New York.

Bachelor of Arts in astronomy from Amherst College; Masters degree in materials science from Rice University; Doctor of Philosophy in astrophysics from Harvard University.

Flew on STS 51-D, STS-35, STS-46, STS-61 and STS-75.

Cumulative hours of space flight are more than 1,211.

HOLMQUEST, Donald L., Civilian

Born April 7, 1939, in Dallas, Texas.

Bachelor of Science in electrical engineering from Southern Methodist University; Doctor of Philosophy in physiology and Doctor of Medicine from Baylor University; juris doctor from the University of Houston.

JEMISON, Mae C., Civilian

Born October 17, 1956, in Decatur, Alabama.

Bachelor of Science in chemical engineering from Stanford University; Doctor of Medicine from Cornell University.

Flew on STS-47.

Cumulative hours of space flight are more than 190.

KERWIN, Joseph P., Captain, Medical Corps, U.S. Navy (Retired)

Born February 19, 1932, in Oak Park, Illinois.

Bachelor of Arts in philosophy from the College of the Holy Cross; Doctor of Medicine from Northwestern University Medical School. Naval Aviator.

Flew on Skylab 2.

Cumulative hours of space flight are more than 672.

Cumulative EVA time is more than 3 hours.

LEESTMA, David C., Captain, U.S. Navy (Retired)

Born May 6, 1949, in Muskegon, Michigan.

Bachelor of Science in aeronautical engineering from the U.S. Naval Academy;

Master of Science in aeronautical engineering from the U.S. Naval Postgraduate School.

Flew on STS 41-G, STS-28, and STS-45.

Cumulative hours of space flight are more than 532.

LENOIR, William B., Civilian

Born March 14, 1939, in Miami, Florida.

Bachelor of Science, Master of Science and Doctor of Philosophy in electrical engineering from the Massachusetts Institute of Technology.

Flew on STS-5.

Cumulative hours of space flight are more than 122.

FORMER U.S. ASTRONAUTS

LIND, Don L., Civilian

Born May 18, 1930, in Midvale, Utah.

Bachelor of Science in physics from the University of Utah; Doctor of philosophy in high energy nuclear physics from the University of California - Berkeley.

Flew on STS 51-B.

Cumulative hours of space flight are more than 168.

LININGER, Jerry M., Captain, U.S. Navy (Retired)

Born January 16, 1955, in Mount Clemens, Michigan. Hometowns, Eastpointe, Michigan, and Coronado, California.

Bachelor of Science in bioscience from the U.S. Naval Academy; Master of Science in systems management from the University of Southern California; Doctor of Medicine from Wayne State University; Master of Public Health in health policy from the University of North Carolina; Doctor of Philosophy in epidemiology from the University of North Carolina.

Flew on STS-64, STS-81/Mir and Mir/STS-84.

Cumulative hours of space flight are more than 3,435.

Cumulative EVA time is more than 5 hours.

LLEWELLYN, John A., Civilian

Born April 22, 1933, in Cardiff, Wales, UK.

Bachelor of Science and Doctor of Philosophy in chemistry from the University College at Cardiff.

LOUNGE, John M., "Mike," Civilian

Born June 28, 1946, in Denver, Colorado.

Bachelor of Science in physics and mathematics from the U.S. Naval Academy;

Master of Science in astrogeophysics from the University of Colorado.

Flew on STS 51-L, STS-26, and STS-35.

Cumulative hours of space flight are more than 482.

LOUSMA, Jack R., Colonel, U.S. Marine Corps (Retired)

Born February 29, 1936, in Grand Rapids, Michigan.

Bachelor of Science in aeronautical engineering from the University of Michigan; degree of aeronautical engineer from the U.S. Naval Postgraduate School.

Flew on Skylab 3 and STS-3.

Cumulative hours of space flight are more than 1,619.

Cumulative EVA time is more than 11 hours.

LOVELL, James A., Jr., Captain, U.S. Navy (Retired)

Born March 25, 1928, in Cleveland, Ohio.

Bachelor of Science from the U.S. Naval Academy; Advanced Management Program, Harvard Business School.

Flew on Gemini 7, Gemini 12, Apollo 8, and Apollo 13.

Cumulative hours of space flight are more than 715.

FORMER U.S. ASTRONAUTS

LOW, G. David, Civilian

Born February 19, 1956, in Cleveland, Ohio.

Bachelor of Science in physics-engineering from Washington and Lee University, and in mechanical engineering from Cornell University; Master of Science in aeronautics and astronautics from Stanford University.

Flew on STS-32, STS-43 and STS-57.

Cumulative hours of space flight are more than 714.

Cumulative EVA time is more than 6 hours.

MATTINGLY, Thomas K., II, Rear Admiral, U.S. Navy (Retired)

Born March 17, 1936, in Chicago, Illinois.

Bachelor of Science in aeronautical engineering from Auburn University.

Flew on Apollo 16, STS-4, and STS 51-C.

Cumulative hours of space flight are more than 508.

Cumulative EVA time is more than 1 hour.

McBRIDE, Jon A., Captain, U.S. Navy (Retired)

Born August 14, 1943, in Charleston, West Virginia.

Bachelor of Science in aeronautical engineering from the U.S. Naval Postgraduate School.

Flew on STS 41-G.

Cumulative hours of space flight are more than 197.

McCANDLESS, Bruce, II, Captain, U.S. Navy (Retired)

Born June 8, 1937, in Boston, Massachusetts.

Bachelor of Science from the U.S. Naval Academy; Master of Science in electrical engineering from Stanford University; Master of Science in business administration from the University of Houston Clear Lake.

Flew on STS 41-B and STS-31.

Cumulative hours of space flight are more than 312.

Cumulative EVA time is more than 11 hours.

McCULLEY, Michael J., Captain, U.S. Navy (Retired)

Born August 4, 1943, in San Diego, California.

Bachelor and Master of Science in metallurgical engineering from Purdue University.

Flew on STS-34.

Cumulative hours of space flight are more than 119.

McDIVITT, James A., Brigadier General, U.S. Air Force (Retired)

Born June 10, 1929, in Chicago, Illinois.

Bachelor of Science in aeronautical engineering from the University of Michigan.

Flew on Gemini 4 and Apollo 9, and was the Apollo Spacecraft Program Manager.

Cumulative hours of space flight are more than 338.

FORMER U.S. ASTRONAUTS

McMONAGLE, Donald R., Colonel, U.S. Air Force (Retired)

Born May 14, 1952, in Flint, Michigan.

Bachelor of Science in astronautical engineering from the U.S. Air Force Academy;
Master of Science in mechanical engineering from California State University -
Fresno.

Flew on STS-39, STS-54 and STS-66.

Cumulative hours of space flight are more than 605.

MEADE, Carl J., Colonel, U.S. Air Force (Retired)

Born November 16, 1950, at Chanute Air Force Base, Illinois.

Bachelor of Science in electronics engineering from the University of Texas; Master of
Science in electronics engineering from the California Institute of Technology.

Flew on STS-38, STS-50 and STS-64.

Cumulative hours of space flight are more than 712.

Cumulative EVA time is more than 6 hours.

MELNICK, Bruce E., Commander, U.S. Coast Guard (Retired)

Born December 5, 1949, in New York, New York.

Bachelor of Science in engineering from the U.S. Coast Guard Academy; Master of
Science in aeronautical systems from West Florida University.

Flew on STS-41 and STS-49.

Cumulative hours of space flight are more than 311.

MICHEL, F. Curtis, Civilian

Born June 5, 1934, in LaCrosse, Wisconsin.

Bachelor of Science and Doctor of Philosophy in physics from the California
Institute of Technology.

MITCHELL, Edgar D., Captain, U.S. Navy (Retired)

Born September 17, 1930, in Hereford, Texas.

Bachelor of Science in industrial management from the Carnegie Institute of
Technology (now Carnegie-Mellon University); Bachelor of Science in aeronautical
engineering from the U.S. Naval Postgraduate School; Doctor of Science in
aeronautics and astronautics from the Massachusetts Institute of Technology.

Flew on Apollo 14.

Cumulative hours of space flight are more than 216.

Cumulative EVA time is more than 9 hours.

MULLANE, Richard M., Colonel, U.S. Air Force (Retired)

Born September 10, 1945, in Wichita Falls, Texas.

Bachelor of Science in military engineering from the U.S. Military Academy; Master of
Science in aeronautical engineering from the U.S. Air Force Institute of Technology.

Flew on STS 41-D, STS-27, and STS-36.

Cumulative hours of space flight are more than 356.

FORMER U.S. ASTRONAUTS

MUSGRAVE, Story, Civilian

Born August 19, 1935, in Boston, Massachusetts. Hometown, Lexington, Kentucky. Bachelor of Science in mathematics and statistics from Syracuse University; Bachelor of Arts in chemistry from Marietta College; Master of Business Administration in operations analysis and computer programming from the University of California at Los Angeles; Master of Science in physiology and biophysics from the University of Kentucky; Master of Arts in literature from the University of Houston; Doctor of Medicine from Columbia University.

Flew on STS-6, STS 51-F, STS-33, STS-44, STS-61 and STS-80.

Cumulative hours of space flight are more than 1,166.

Cumulative EVA time is more than 26 hours.

NAGEL, Steven R., Colonel, U.S. Air Force (Retired)

Born October 27, 1946, in Canton, Illinois.

Bachelor of Science in aeronautical and astronautical engineering from the University of Illinois; Master of Science in mechanical engineering from California State University - Fresno.

Flew on STS 51-G, STS 61-A, STS-37, and STS-55.

Cumulative hours of space flight are more than 721.

NELSON, George D., Civilian

Born July 13, 1950, in Charles City, Iowa.

Bachelor of Science in physics from Harvey Mudd College; Master of Science and Doctor of Philosophy in astronomy from the University of Washington.

Flew on STS 41-C, STS 61-C, and STS-26.

Cumulative hours of space flight are more than 410.

Cumulative EVA time is more than 10 hours.

O'CONNOR, Bryan D., Colonel, U.S. Marine Corps (Retired)

Born September 6, 1946, in Orange, California.

Bachelor of Science in engineering from the U.S. Naval Academy; Master of Science in aeronautical systems from West Florida University.

Flew on STS 61-B and STS-40.

Cumulative hours of space flight are more than 383.

O'LEARY, Brian T., Civilian

Born January 27, 1940, in Boston, Massachusetts.

Bachelor of Arts in physics from Williams College; Master of Arts in astronomy from Georgetown University; Doctor of philosophy in astronomy from the University of California at Berkeley.

OSWALD, Stephen S., Civilian

Born June 30, 1951, in Seattle, Washington. Hometown, Bellingham, Washington.

Bachelor of Science in aerospace engineering from the U.S. Naval Academy.

Flew on STS-42, STS-56 and STS-67.

Cumulative hours of space flight are more than 814.

FORMER U.S. ASTRONAUTS

PARKER, Robert A. R., Civilian

Born December 14, 1936, in New York City, New York.

Bachelor of Arts in astronomy and physics from Amherst College;

Doctor of Philosophy in astronomy from the California Institute of Technology.

Flew on STS-9 and STS-35.

Cumulative hours of space flight are more than 462.

PETERSON, Donald H., Colonel, U.S. Air Force (Retired)

Born October 22, 1933, in Winona, Mississippi.

Bachelor of Science from the U.S. Military Academy; Master of Science in nuclear engineering from the U.S. Air Force Institute of Technology. Graduate of Air Force Test Pilot School and War College.

Flew on STS-6.

Cumulative hours of space flight are more than 120.

POGUE, William R., Colonel, U.S. Air Force (Retired)

Born January 23, 1930, in Okemah, Oklahoma.

Bachelor of Science in education from Oklahoma Baptist University;

Master of Science in mathematics from Oklahoma State University.

Flew on Skylab 4.

Cumulative hours of space flight are more than 2,017.

Cumulative EVA time is more than 13 hours.

REIGHTLER, Kenneth S., Jr., Captain, U.S. Navy (Retired)

Born March 24, 1951, in Patuxent River, Maryland. Hometown, Virginia Beach, Virginia.

Bachelor of Science in aerospace engineering from the U.S. Naval Academy; Master of Science in aeronautical engineering from the U.S. Naval Postgraduate School; Master of Science in systems management from the University of Southern California.

Flew on STS-48 and STS-60.

Cumulative hours of space flight are more than 327.

RICHARDS, Richard N., Captain, U.S. Navy (Retired)

Born August 24, 1946, in Key West, Florida. Hometown, St. Louis, Missouri.

Bachelor of Science in chemical engineering from the University of Missouri; Master of Science in aeronautical systems from the University of West Florida.

Flew on STS-28, STS-41, STS-50 and STS-64.

Cumulative hours of space flight are more than 813.

RIDE, Sally K., Civilian

Born May 26, 1951, in Los Angeles, California.

Bachelor of Science in physics; Bachelor of Arts in english; Master of Science and Doctor of Philosophy in physics from Stanford University.

Flew on STS-7 and STS 41-G.

Cumulative hours of space flight are more than 343.

FORMER U.S. ASTRONAUTS

SCHIRRA, Walter M., Jr., Captain, U.S. Navy (Retired)

Born March 12, 1923, in Hackensack, New Jersey.

Bachelor of Science from the U.S. Naval Academy; graduate of the U.S. Naval Test Pilot School.

Flew on Mercury 8, Gemini 6, and Apollo 7.

Cumulative hours of space flight are more than 295.

SCHMITT, Harrison H., Civilian

Born July 3, 1935, in Santa Rita, New Mexico.

Bachelor of Science in geology from the California Institute of Technology;

Doctor of Philosophy in geology from Harvard University.

Flew on Apollo 17.

Cumulative hours of space flight are more than 301.

Cumulative EVA time is more than 22 hours.

SCHWEICKART, Russell L., Civilian

Born October 25, 1935 in Neptune, New Jersey.

Bachelor of Science in aeronautical engineering from the Massachusetts

Institute of Technology; Master of Science in aeronautics and astronautics from the Massachusetts Institute of Technology.

Flew on Apollo 9.

Cumulative hours of space flight are more than 241.

Cumulative EVA time is more than 1 hour.

SCOTT, David R., Colonel, U.S. Air Force (Retired)

Born June 6, 1932, in San Antonio, Texas.

Bachelor of Science from the U.S. Military Academy; Master of Science in aeronautics and astronautics and engineer in aeronautics and astronautics from the Massachusetts Institute of Technology.

Flew on Gemini 8, Apollo 9, and Apollo 15.

Cumulative hours of space flight are more than 546.

Cumulative EVA time is more than 20 hours.

SCOTT, Winston E., Captain, U.S. Navy (Retired)

Born August 6, 1950, in Miami, Florida.

Bachelor of Arts in music from Florida State University; Master of Science in aeronautical engineering from the U.S. Naval Postgraduate School.

Flew on STS-72 and STS-87.

Cumulative hours of space flight are more than 590.

Cumulative EVA time is more than 19 hours.

SEARFOSS, Richard A., Colonel, U.S. Air Force (Retire)

Born June 5, 1956, in Mount Clemens, Michigan. Hometown, Portsmouth, New Hampshire.

Bachelor of Science in aeronautical engineering from the U.S. Air Force Academy; Master of Aeronautics from the California Institute of Technology.

Flew on STS-58, STS-76 and STS-90.

Cumulative hours of space flight are more than 938.

FORMER U.S. ASTRONAUTS

SEDDON, Margaret Rhea, Civilian

Born November 8, 1947, in Murfreesboro, Tennessee.

Bachelor of Arts in physiology from the University of California at Berkeley; Doctor of Medicine from the University of Tennessee.

Flew on STS 51-D, STS-40 and STS-58.

Cumulative hours of space flight are more than 722.

SEGA, Ronald M., Colonel, U.S. Air Force Reserve

Born December 4, 1952, in Cleveland, Ohio. Hometowns, Northfield, Ohio, and Colorado Springs, Colorado.

Bachelor of Science in physics and math from the U.S. Air Force Academy;

Master of Science in physics from Ohio State University; Doctor of Philosophy in electrical engineering from the University of Colorado.

Flew on STS-60 and STS-76.

Cumulative hours of space flight are more than 420.

SHAW, Brewster H., Jr., Colonel, U.S. Air Force (Retired)

Born May 16, 1945, in Cass City, Michigan.

Bachelor and Master of Science in engineering mechanics from the University of Wisconsin.

Flew on STS-9, STS 61-B, and STS-28.

Cumulative hours of space flight are more than 533.

SHRIVER, Loren J., Colonel, U.S. Air Force (Retired)

Born September 23, 1944, in Jefferson, Iowa.

Bachelor of Science in aeronautical engineering from the U.S. Air Force

Academy; Master of Science in astronautical engineering from Purdue University.

Flew on STS 51-C, STS-31, and STS-46.

Cumulative hours of space flight are more than 386.

SPRING, Sherwood C., Colonel, U.S. Army (Retired)

Born September 3, 1944, in Hartford, Connecticut.

Bachelor of Science in general engineering from the U.S. Military Academy;

Master of Science in aerospace engineering from the University of Arizona.

Flew on STS 61-B.

Cumulative hours of space flight are more than 165.

SPRINGER, Robert C., Colonel, U.S. Marine Corps (Retired)

Born May 21, 1942, in St. Louis, Missouri.

Bachelor of Science in naval science from the U.S. Naval Academy; Master of

Science in operations research and systems analysis from the U.S. Naval Postgraduate School.

Flew on STS-29 and STS-38.

Cumulative hours of space flight are more than 237.

FORMER U.S. ASTRONAUTS

STAFFORD, Thomas P., Lieutenant General, U.S. Air Force (Retired)

Born September 17, 1930, in Weatherford, Oklahoma.

Bachelor of Science from the U.S. Naval Academy.

Flew on Gemini 6, Gemini 9, Apollo 10, and Apollo-Soyuz Test Project.

Cumulative hours of space flight are more than 507.

STEWART, Robert L., Brigadier General, U.S. Army (Retired)

Born August 13, 1942, in Washington, D.C.

Bachelor of Science in mathematics from Southern Mississippi University;

Master of Science in aerospace engineering from the University of Texas at Arlington.

Flew on STS 41-B and STS 51-J.

Cumulative hours of space flight are more than 289.

Cumulative EVA time is more than 12 hours.

SULLIVAN, Kathryn D., Civilian

Born October 3, 1951, in Paterson, New Jersey.

Bachelor of Science in earth sciences from the University of California - Santa Cruz;

Doctor of Philosophy in geology from Dalhousie University, Halifax, Nova Scotia.

Flew on STS 41-G, STS-31, and STS-45.

Cumulative hours of space flight are more than 532.

Cumulative EVA time is more than 3 hours.

THAGARD, Norman E., Civilian

Born July 3, 1943, in Marianna, Florida. Hometown, Jacksonville, Florida.

Bachelor and Master of Science in engineering science from Florida State University; Doctor of Medicine from the University of Texas.

Flew on STS-7, STS 51-B, STS-30, STS-42 and Mir/STS-71.

Cumulative hours of space flight are more than 3,360 including time on Mir.

THORNTON, Kathryn C., Civilian

Born August 17, 1952, in Montgomery, Alabama.

Bachelor of Science in physics from Auburn University; Master of Science and Doctor of Philosophy in physics from the University of Virginia.

Flew on STS-33, STS-49, STS-61 and STS-73.

Cumulative hours of space flight are more than 975.

Cumulative EVA time is more than 21 hours.

THORNTON, William E., Civilian

Born April 14, 1929, in Faison, North Carolina.

Bachelor of Science in physics and Doctor of Medicine from the University of North Carolina.

Flew on STS-8 and STS-51B.

Cumulative hours of space flight are more than 313.

FORMER U.S. ASTRONAUTS

THUOT, Pierre J., Commander, U.S. Navy

Born May 19, 1955, in Groton, Connecticut. Hometowns, Fairfax, Virginia and New Bedford, Massachusetts.

Bachelor of Science in physics from the U.S. Naval Academy; Master of Science in systems management from the University of Southern California.

Flew on STS-36, STS-49 and STS-62.

Cumulative hours of space flight are more than 654.

Cumulative EVA time is more than 17 hours.

TRULY, Richard H., Vice Admiral, U.S. Navy (Retired)

Born November 12, 1937, in Fayette, Mississippi.

Bachelor of aeronautical engineering from the Georgia Institute of Technology.

Flew on Space Shuttle approach and landing tests 2 and 4, STS-2, and STS-8.

Cumulative hours of space flight are more than 199.

VAN HOFEN, James D. A., Civilian

Born June 11, 1944, in Fresno, California.

Bachelor of Science in civil engineering from the University of California - Berkeley;

Master of Science in hydraulic engineering and Doctor of Philosophy in fluid mechanics from Colorado State University.

Flew on STS 41-C and STS 51-L.

Cumulative hours of space flight are more than 337.

Cumulative EVA time is more than 21 hours.

WALKER, David M., Captain, U.S. Navy (Retired)

Born May 20, 1944, in Columbus, Georgia. Hometown, Eustis, Florida.

Bachelor of Science from the U.S. Naval Academy.

Flew on STS 51-A, STS-30, STS-53 And STS-69.

Cumulative hours of space flight are more than 724.

WEITZ, Paul J., Captain, U.S. Navy (Retired)

Born July 25, 1932, in Erie, Pennsylvania.

Bachelor of Science in aeronautical engineering from Pennsylvania State University;

Master of Science in aeronautical engineering from the U.S. Naval Postgraduate School.

Flew on Skylab 2 and STS-6.

Cumulative hours of space flight are more than 793.

WILLIAMS, Donald E., Captain, U.S. Navy (Retired)

Born February 13, 1942, in Lafayette, Indiana.

Bachelor of Science in mechanical engineering from Purdue University.

Flew on STS 51-D and STS-34.

Cumulative hours of space flight are more than 287.

FORMER U.S. ASTRONAUTS

WORDEN, Alfred M., Colonel, U.S. Air Force (Retired)

Born February 7, 1932, in Jackson, Michigan.

Bachelor of Science in military science from the U.S. Military Academy; Master of Science in astronautical and aeronautical engineering and instrumentation engineering from the University of Michigan.

Flew on Apollo 15.

Cumulative hours of space flight are more than 295.

Cumulative EVA time is more than 39 minutes.

DECEASED U.S. ASTRONAUTS

BASSETT, Charles A., II, Captain, U.S. Air Force

Born December 30, 1931, in Dayton, Ohio.

Bachelor of Science in electrical engineering from the Texas Technological College.

Died February 28, 1966, in St. Louis, Missouri, in the crash of a T-38 jet.

CARTER, Manley Lanier, Jr., "Sonny," Captain, U.S. Navy

Born August 15, 1947, in Macon, Georgia.

Bachelor of Arts in chemistry and Doctor of Medicine from Emory University.

Flew on STS-33.

Cumulative hours of space flight are more than 120.

Died April 5, 1991, near New Brunswick, Georgia, in the crash of a commercial airliner while on NASA business travel.

CHAFFEE, Roger B., Lieutenant Commander, U.S. Navy

Born February 15, 1935, in Grand Rapids, Michigan.

Bachelor of Science in aeronautical engineering from Purdue University.

Died January 27, 1967, at NASA John F. Kennedy Space Center, Florida, in the Apollo spacecraft fire.

CONRAD, Charles, Jr., Captain, U.S. Navy (Retired)

Born June 2, 1930, in Philadelphia, Pennsylvania.

Bachelor of Science in aeronautical engineering from Princeton University.

Flew on Gemini 5, Gemini 11, Apollo 12, and Skylab 2.

Cumulative hours of space flight are more than 1,179.

Cumulative EVA time is more than 13 hours.

Died July 8, 1999, in Ojai, California, in a motorcycle accident.

EISELE, Donn F., Colonel, U.S. Air Force (Retired)

Born June 23, 1930, in Columbus, Ohio.

Bachelor of Science in astronautics from the U.S. Naval Academy; Master of Science in astronautics from the U.S. Air Force Institute of Technology.

Flew on Apollo 7.

Cumulative hours of space flight are more than 260.

Died December 2, 1987, in Tokyo, Japan, of a heart attack.

EVANS, Ronald E., Captain, U.S. Navy (Retired)

Born November 10, 1933, in St. Francis, Kansas.

Bachelor of Science in electrical engineering from the University of Kansas; Master of Science in aeronautical engineering from the U.S. Naval Postgraduate School.

Flew on Apollo 17.

Cumulative hours of space flight are more than 301.

Cumulative EVA time is more than 1 hour.

Died April 6, 1990, in Scottsdale, Arizona, of a heart attack.

DECEASED U.S. ASTRONAUTS

FREEMAN, Theodore C., Captain, U.S. Air Force

Born February 18, 1930, in Haverford, Pennsylvania.

Bachelor of Science from the U.S. Naval Academy; Master of Science in aeronautical engineering from the University of Michigan.

Died October 31, 1964, at Ellington Air Force Base, Houston, Texas, in the crash of a T-38 jet.

GIVENS, Edward G., Jr., Major, U.S. Air Force

Born January 5, 1930, in Quanah, Texas.

Bachelor of Science in naval sciences from the U.S. Naval Academy.

Died June 6, 1967, near Houston, Texas, in an automobile accident.

GRIGGS, S. David, Civilian

Born September 7, 1939, in Portland, Oregon.

Bachelor of Science from the U.S. Naval Academy; Master of Science in administration from George Washington University.

Flew on STS 51-D.

Cumulative hours of space flight are more than 167.

Cumulative EVA time is more than 3 hours.

Died June 17, 1989, near Earle, Arkansas, in the crash of a World War II era training plane.

GRISSOM, Virgil I., Lieutenant Colonel, U.S. Air Force

Born April 3, 1926, in Mitchell, Indiana.

Bachelor of Science in mechanical engineering from Purdue University.

Flew on Mercury 4 and Gemini 3.

Cumulative hours of space flight are more than 5.

Died January 27, 1967, at NASA John F. Kennedy Space Center, Florida, in the Apollo spacecraft fire.

HENIZE, Karl G., Civilian

Born October 17, 1926, in Cincinnati, Ohio.

Bachelor of Arts in mathematics from the University of Virginia; Master of Arts in astronomy from the University of Virginia; Doctor of Philosophy in astronomy from the University of Michigan.

Flew on STS 51-F.

Cumulative hours of space flight are more than 190.

Died October 5, 1993, of respiratory and heart failure during a climb of Mount Everest.

IRWIN, James B., Colonel, U.S. Air Force (Retired)

Born March 17, 1930, in Pittsburgh, Pennsylvania.

Bachelor of Science in naval science from the U.S. Naval Academy; Master of Science in aeronautical engineering and instrumentation engineering from the University of Michigan.

Flew on Apollo 15.

Cumulative hours of space flight are more than 2,952.

Cumulative EVA time is more than 18 hours.

Died August 8, 1991, of a heart attack.

DECEASED U.S. ASTRONAUTS

McNAIR, Ronald E., Civilian

Born October 21, 1950, in Lake City, South Carolina.

Bachelor of Science in physics from North Carolina A&T State College; Doctor of Philosophy in physics from the Massachusetts Institute of Technology.

Flew on STS 41-B.

Cumulative hours of space flight are more than 191.

Died January 28, 1986, in the STS 51-L accident.

ONIZUKA, Ellison S., Lieutenant Colonel, U.S. Air Force

Born June 24, 1946, in Kealahou, Kona, Hawaii.

Bachelor and Master of Science in aerospace engineering from the University of Colorado.

Flew on STS 51-C.

Cumulative hours of space flight are more than 73.

Died January 28, 1986, in the STS 51-L accident.

OVERMYER, Robert F., Colonel, U.S. Marine Corps (Retired)

Born July 14, 1936, in Lorain, Ohio.

Bachelor of Science in physics from Baldwin Wallace College; Master of Science in aeronautics from the U.S. Naval Postgraduate School.

Flew on STS-5 and STS 51-B.

Cumulative hours of space flight are more than 290.

Died March 22, 1996, in the crash of a light aircraft he was testing.

RESNIK, Judith A., Civilian

Born April 5, 1949, in Akron, Ohio.

Bachelor of Science in electrical engineering from Carnegie-Mellon University; Doctor of Philosophy in electrical engineering from the University of Maryland.

Flew on STS 41-D.

Cumulative hours of space flight are more than 144.

Died January 28, 1986, in the STS 51-L accident.

ROOSA, Stuart A., Colonel, U.S. Air Force (Retired)

Born August 16, 1933, in Durango, Colorado.

Bachelor of Science in aeronautical engineering from the University of Colorado.

Flew on Apollo 14.

Cumulative hours of space flight are more than 216.

Died December 12, 1994, due to complications of pancreatitis.

SCOBEE, Francis R., Major, U.S. Air Force (Retired)

Born May 19, 1939, in Cle Elum, Washington.

Bachelor of Science in aerospace engineering from the University of Arizona.

Flew on STS 41-C.

Cumulative hours of space flight are more than 167.

Died January 28, 1986, in the STS 51-L accident.

DECEASED U.S. ASTRONAUTS

SEE, Elliot M., Jr., Civilian

Born July 23, 1927, in Dallas, Texas.

Bachelor of Science from the U.S. Merchant Marine Academy; Master of Science in engineering from the University of California - Los Angeles.

Died February 28, 1966, in St. Louis, Missouri, in the crash of a T-38 jet.

SHEPARD, Alan B., Jr., Rear Admiral, U.S. Navy (Retired)

Born November 18, 1923, in East Derry, New Hampshire.

Bachelor of Science from the U.S. Naval Academy.

Flew on Mercury 3 and Apollo 14.

Cumulative hours of space flight are more than 216.

Cumulative EVA time is more than 9 hours.

Died July 21, 1998, after a lengthy illness.

SLAYTON, Donald K., Major, U.S. Air Force Reserve

Born March 1, 1924, in Sparta, Wisconsin.

Bachelor of Science in aeronautical engineering from the University of Minnesota.

Flew on Apollo-Soyuz Test Project.

Cumulative hours of space flight are more than 217.

Died June 13, 1993, in League City, Texas, from complications of a brain tumor.

SMITH, Michael J., Captain, U.S. Navy

Born April 30, 1945, in Beaufort, North Carolina.

Bachelor of Science in naval science from the U.S. Naval Academy; Master of

Science in aeronautical engineering from the U.S. Naval Postgraduate School.

Died January 28, 1986, in the STS 51-L accident.

SWIGERT, John L., Jr., Civilian

Born August 30, 1931, in Denver, Colorado.

Bachelor of Science in mechanical engineering from the University of Colorado;

Master of Science in aerospace science from the Rensselaer Polytechnic Institute;

Master of Business Administration from Hartford College.

Flew on Apollo 13.

Cumulative hours of space flight are more than 142.

Died December 27, 1982, of cancer.

THORNE, Stephen D., Lieutenant Commander, U.S. Navy

Born February 11, 1953, in Frankfurt-am-Main, West Germany.

Bachelor of Science in engineering from the U.S. Naval Academy.

Died May 24, 1986, in Alta Loma, Texas, in an airplane crash.

VEACH, Charles Lacy, Civilian

Born September 18, 1944, in Chicago, Illinois. Hometown, Honolulu, Hawaii.

Bachelor of Science in engineering management from the U.S. Air Force Academy.

Flew on STS-39 and STS-52.

Cumulative hours of space flight are more than 436.

Died October 3, 1995, following a lengthy illness.

DECEASED U.S. ASTRONAUTS

WHITE, Edward H., II, Lieutenant Colonel, U.S. Air Force

Born November 14, 1930, in San Antonio, Texas.

Bachelor of Science from the U.S. Military Academy; Master of Science in aeronautical engineering from the University of Michigan.

Flew on Gemini 4.

Cumulative hours of space flight are more than 97.

Cumulative EVA time is more than 23 minutes.

Died January 27, 1967, at NASA John F. Kennedy Space Center, Florida, in the Apollo spacecraft fire.

WILLIAMS, Clifton C., Jr., Major, U.S. Marine Corps

Born September 26, 1932, in Mobile, Alabama.

Bachelor of Science in mechanical engineering from Auburn University.

Died October 5, 1967, near Tallahassee, Florida, in the crash of a T-38 jet.

U.S. ASTRONAUT SELECTION BY GROUP

GROUP 1 -- Mercury Astronauts, April 1959: Carpenter, Cooper, Glenn, Grissom, Schirra, Shepard, Slayton (7)

GROUP 2 -- Pilot Astronauts, September 1962: Armstrong, Borman, Conrad, Lovell, McDivitt, See, Stafford, White, Young (9)

GROUP 3 -- Pilot Astronauts, October 1963: Aldrin, Anders, Bassett, Bean, Cernan, Chaffee, M. Collins, Cunningham, Eisele, Freeman, Gordon, Schweickart, D. Scott, C. Williams (14)

GROUP 4 -- Scientist Astronauts, June 1965: Garriott, E. Gibson, Graveline, Kerwin, Michel, Schmitt (6)

GROUP 5 -- Pilot Astronauts, April 1966: Brand, Bull, Carr, Duke, Engle, Evans, Givens, Haise, Irwin, Lind, Lousma, Mattingly, McCandless, Mitchell, Pogue, Roosa, Swigert, Weitz, Worden (19)

GROUP 6 -- Scientist Astronauts, August 1967: J. Allen, Chapman, England, Henize, Holmquest, Lenoir, Llewellyn, Musgrave, O'Leary, Parker, W. Thornton (11)

GROUP 7 -- Air Force Manned Orbiting Laboratory Astronauts, August 1969: Bobko, Crippen, Fullerton, Hartsfield, Overmyer, Peterson, Truly (7)

GROUP 8 -- Pilots and Mission Specialists, January 1978: Bluford, Brandenstein, Buchli, Coats, Covey, Creighton, Fabian, A. Fisher, D. Gardner, R. Gibson, F. Gregory, Griggs, Hart, Hauck, Hawley, Hoffman, Lucid, McBride, McNair, Mullane, Nagel, Nelson, Onizuka, Resnik, Ride, Scobee, Seddon, Shaw, Shriver, Stewart, Sullivan, Thagard, van Hoften, Walker, D. Williams (35)

GROUP 9 -- Pilots and Mission Specialists, January 1980: Bagian, Blaha, Bolden, Bridges, Chang-Diaz, Cleave, Dunbar, W. Fisher, G. Gardner, Grabe, Hilmers, Leestma, Lounge, O'Connor, R. Richards, Ross, M. Smith, Spring, Springer (19)

GROUP 10 -- Pilots and Mission Specialists, May 1984: Adamson, E. Baker, M. Brown, Cameron, Carter, Casper, Culbertson, Gutierrez, Hammond, Ivins, Lee, Low, McCulley, Shepherd, K. Thornton, Veach, Wetherbee (17)

GROUP 11 -- Pilots and Mission Specialists, June 1985: Apt, M. Baker, Cabana, Duffy, Gemar, Godwin, Henricks, Hieb, Jernigan, Meade, Oswald, Thorne, Thuot (13)

GROUP 12 -- Pilots and Mission Specialists, August 1987: Akers, A. Allen, Bowersox, C. Brown, Chilton, Davis, Foale, Harbaugh, Jemison, McMonagle, Melnick, Readdy, Reightler, Runco, James Voss (15)

U.S. ASTRONAUT SELECTION BY GROUP

GROUP 13 -- Pilots and Mission Specialists, January 1990: Bursch, Chiao, Clifford, Cockrell, E. Collins, W. Gregory, Halsell, Harris, Helms, Jones, W. McArthur, Newman, Ochoa, Precourt, Searfoss, Sega, Sherlock (Currie), D. Thomas, Janice Voss, Walz, Wilcutt, Wisoff, Wolf (23)

GROUP 14 -- Pilots and Mission Specialists, March 1992: Barry, Brady, Coleman, Gernhardt, Grunsfeld, Horowitz, Jett, Kregel, Lawrence, Linenger, Linnehan, Lopez-Alegria, Parazynski, Rominger, W. Scott, S. Smith, Tanner, A. Thomas, Weber (19)

GROUP 15 -- Pilots and Mission Specialists, January 1995: Altman, M. Anderson, Ashby, Bloomfield, Chawla, Chretein, Curbeam, Edwards, Gorie, Hire, Husband, Kavandi, Lindsey, Lu, Melroy, Noriega, Reilly, S. Robinson, Kilrain (Still), Sturckow (20)

GROUP 16 -- Pilots and Mission Specialists, May 1996: D. Brown, Burbank, Cagle, Caldeiro, Camarda, Carey, Clark, Fincke, Forrester, Frick, Herrington, Higginbotham, Hobaugh, J. Kelly, M. Kelly, S. Kelly, Lockhart, Loria, Magnus, Massimino, Mastracchio, McCool, Morin, Nowak, Pettit, Phillips, Polansky, P. Richards, Sellers, Stefanyshyn-Piper, Tani, Walheim, Whitson, J. Williams, Wilson (35)

GROUP 17 -- Pilots and Mission Specialists, June 1998: C. Anderson, Archambault, Caldwell, Chamitoff, Creamer, Ferguson, Foreman, Fossum, Ham, Robertson, G. C. Johnson, G. H. Johnson, Love, Melvin, Morgan, Oefelein, Olivas, Patrick, Poindexter, Reisman, Swanson, Wheelock, S. Williams, Woodward, Zamka (25)

GROUP 18 (Candidates) -- Pilots and Mission Specialists, July 2000: Antonelli, Barratt, Behnken, Boe, Bowen, Drew, Feustel, Ford, Garan, Good, Hurley, Kopra, M. McArthur, Nyberg, Stott, Virts, Wilmore (17)

CONGRESSIONAL SPACE MEDAL OF HONOR

In honor of NASA's 20th anniversary, President Jimmy Carter visited NASA John F. Kennedy Space Center on October 1, 1978, and awarded the first Congressional Space Medal of Honor to six former astronauts. Authorized by Congress in 1969, the award recognized "any astronaut who in the performance of his duties has distinguished himself by exceptionally meritorious efforts and contributions to the welfare of the Nation and mankind."

These astronauts received this special honor:

Neil A. Armstrong, for actions to overcome problems on the Gemini 8 mission and for Apollo 11 when he took his "...giant leap for mankind."

Frank Borman, who commanded the Gemini 7 and Apollo 8 missions. The latter was the first manned spacecraft to orbit the Moon.

Charles Conrad, Jr., who participated in four space flights of increasing duration, complexity and achievement: Gemini 5, Gemini 11, Apollo 12, and Skylab 2. On the first manned Skylab mission, he commanded the crew that performed repairs to the damaged orbital workshop, thus saving the two billion dollar program from potential failure.

John H. Glenn, Jr., who in Mercury 6 was the first American to orbit the Earth. The success of his flight demonstrated the value of the human pilot in space.

Virgil I. Grissom (posthumously), the second American in space, who took part in Mercury and Gemini flights and lost his life during preparations for the first Apollo flight. He flew on Mercury 4 and Gemini 3.

Alan B. Shepard, Jr., who was the first American in space, aboard Mercury 3. He also commanded the Apollo 14 mission.

John W. Young, who demonstrated leadership, courage, and technical skill in a space flight career that spanned two decades and five (at that time) space flights pivotal to human progress in space. He flew on Gemini 3, Gemini 10, Apollo 10, Apollo 16, and STS-1 prior to receipt of the medal which was presented May 19, 1981, by President Ronald Reagan.

Thomas J. Stafford, who commanded the first flight of the lunar module to the Moon and the American crew that rendezvoused with a Soviet spacecraft in 1975. He was recognized for his past contributions, and for continuing to serve the Nation in charting a future vision for our space program. He flew on Gemini 6 and 9, Apollo 10, and the Apollo-Soyuz Test Project. The medal was presented January 19, 1991, by Vice President Dan Quayle at the direction of President George Bush.

James A. Lovell, who flew on Gemini 7 and 12, and Apollo 8 and 13, was presented the medal on July 26, 1995. In his remarks, President Bill Clinton especially commended Lovell for his performance on Apollo 13, which demonstrated, "the kind of resourcefulness, grit, and grace under pressure that is the province of heroes."

Shannon Lucid, who spent 188 days in space on the U.S. shuttle and Russian space station Mir, was presented the medal on December 2, 1996. Noting that the medal is given out sparingly because it honors "extraordinary service to the nation," President Bill Clinton added that "Dr. Lucid achieved that kind of service for 188 days this year, the longest flight by an American in space, the longest time for any woman of any nation in space, five shuttle missions altogether."

EDUCATIONAL INSTITUTIONS FROM WHICH U.S. ASTRONAUTS HAVE EARNED DEGREES

Adelaide, University of, (Australia):

A. Thomas

Alabama, University of, (AL): J. Kelly

Alabama (Huntsville), University of, (AL):

Davis

Alabama (Birmingham), University of,

(AL): Morin

Amherst College (MA): Hoffman, Parker

Arizona, University of, (AZ): Caldeiro,

Jones, Pettit, Scobee, Spring

Auburn University (AL): Davis, Hartsfield,

Mattingly, K. Thornton, James Voss,

C. Williams

Baldwin-Wallace College (OH): Overmyer

Baylor University (TX): Holmquest

California Institute of Technology (CA):

Behnken, Borman, Chamitoff, Fullerton,

E. Gibson, Meade, Michel, Parker,

Reisman, Schmitt, Searfoss

California, University of, Berkeley (CA):

Chiao, Jernigan, Lind, O'Leary, Seddon,

van Hoften, Walheim, Weber

California, University of, Los Angeles (CA):

Brand, Cunningham, A. Fisher, K.

McArthur, Musgrave, Phillips, Robinson,

See

California Polytechnic State University

(CA): Chamitoff, R. Gibson, Sturckow

California, University of, Davis (CA):

Caldwell, Robinson

California, University of, San Diego (CA): K.

McArthur

California, University of, Santa Barbara

(CA): Chiao

California, University of, Santa Cruz (CA):

Hawley, Sullivan

California State University, Fresno (CA):

Husband, McMonagle, Nagel

California State University, Fullerton (CA)

Caldwell

California State University, Northridge

(CA): Horowitz

Cambridge University (UK): Foale, Patrick

Carnegie-Mellon University (formerly

Carnegie Institute of Technology) (PA):

Resnik, Mitchell

Case Western University (OH): D. Thomas

Central Florida, University of (FL): Caldeiro

City College of New York (NY): Runco

Chicago, University of, (IL): Grunsfeld

Colorado, University of, (CO): Brand,

Carpenter, Chawla, Herrington, Hieb,

Ivins, Lounge, Onizuka, Roosa, Sega,

Swanson, Swigert, James Voss

Colorado State University (CO): Cleave,

Rominger, van Hoften

Columbia University (NY): Bowersox,

Chilton, W. Gregory, G. H. Johnson,

Massimino, Musgrave

Connecticut, University of, (CN):

Chang-Diaz, Mastracchio

Cornell College (NY): Hilmers

Cornell University (NY): E. Baker, Barry,

Jemison, Low, Lu, D. Thomas

Creighton University (NE): M. Anderson

Dalhousie University (Nova Scotia): Sullivan

Dartmouth College (NH): Newman

Depauw University (IN): J. Allen

Drexel University (PA): Bagian, Ferguson, P.

Richards

Duke University (NC): Brady

Eastern Virginia Medical School (VA): D.

Brown

Edinburgh, University of (Scotland): Sellers

Embry-Riddle University (FL): Burbank,

Drew, Garan, Stott, Virts, Kilrain

Emory University (GA): Carter

Florida Atlantic University (FL): Swanson

Florida Institute of Technology (FL):

Higginbotham, Hire, S. Williams, Zamka

Florida, University of, (FL): W. Fisher, Ford,

Garan

Florida, University of Central (FL): Stott

Florida State University (FL): W. Scott,

Thagard

Georgetown University (DC): O'Leary

George Washington University (DC):

Camarda, Coats, Creighton, F. Gregory,

Griggs

Georgia Institute of Technology (GA):

Boe, Clifford, Davis, Hammond,

Horowitz, Kopra, Mangus, W. McArthur,

Poindexter, Kilrain, Truly, Wheelock,

Young

Golden Gate University (CA): Henricks,

Precourt

Hartford College (CT): Swigert

Harvard College (MA): Apt

EDUCATIONAL INSTITUTIONS FROM WHICH U.S. ASTRONAUTS HAVE EARNED DEGREES

Harvard University (MA): Hoffman, Schmitt, Wilson	Missouri, University of, (MO): Godwin, Richards
Harvey Mudd College (CA): Love, Nelson	Missouri, University of, Rolla (MO): Akers, Mangus, Kavandi
Hastings College (NE): C. Anderson	Missouri Southern State College (MO): Kavandi
Holy Cross, College of the, (MA): Kerwin	Muskingum College (OH): Glenn
Houston, University of, (TX): Bluford, Cheli, Currie, Dunbar, W. Fisher, Harbaugh, Harris, Holmquest, Mastracchio, McCandless, Musgrave, Olivas, Walheim	New Hampshire, University of (NH): Linnehan, Morin
Houston, University of, Clear Lake (TX): Fossum	New York University, (NY): Morin
Idaho, University of, (ID): Ashby	North Carolina, University of, (NC): Brady, Linenger, W. Thornton
Illinois, University of, (IL): Altman, Archambault, D. Gardner, Higginbotham, Nagel, Tanner	North Carolina Agricultural & Technical State University (NC): McNair
Indiana University, (IN): Wolf	North Dakota, University of, (ND): Nyberg
Iowa State University (IA): C. Anderson	Northwest Nazarene College (ID): Hieb
Iowa Wesleyan College (IA): Whitson	Northwestern University (IL): Barratt, Kerwin
John Carroll University (MT): Walz	Notre Dame, University of, (IN): Ford, Good, Wetherbee
Johns Hopkins University (MD): Graveline	Ohio State (OH): Currie, Linnehan, Sega
Kansas, University of, (KS): Engle, Evans, Hawley	Oklahoma, University of, (OK): Garriott, Haise, Lucid
Kent State University (OH): Walz	Oklahoma Baptist University (OK): Pogue
Kentucky, University of, (KY): Musgrave	Oklahoma City University (OK): Cooper
Leeds University (United Kingdom): Sellers	Oklahoma State University (OK): Pogue
Lehigh University (PA): Hart	Old Dominion University (VA): Bloomfield
Loyola College (MD): Creamer	Oregon State University (OR): Oefelein, Pettit
Marietta College (OH): Musgrave	Pennsylvania, Medical College of (PA): Robertson
Maryland, University of, (MD): McCool, Resnik, P. Richards	Pennsylvania State University (PA): Bluford, Weitz
Massachusetts Institute of Technology (MA): Aldrin, Antonelli, Apt, Bowen, Cameron, Chamitoff, Chang-Diaz, Chapman, Coleman, Creamer, Duke, Fincke, England, Grunsfeld, Hart, Hauck, Lawrence, Lee, Lenoir, Massimino, McNair, Melroy, Mitchell, Patrick, Schweickart, D. Scott, Shepherd, Stefanyshyn-Piper, Tani, Janice Voss, Woodward	Pennsylvania, University of (PA): Gernhardt, Robertson, Reisman
Massachusetts, University of (MA): Coleman	Princeton University (NJ): Adamson, Barry, Carr, Conrad
Miami, University of (FL): Barry	Polytechnic Institute of New York (NY): Camarda
Michigan, University of, (MI): Freeman, Henize, Irwin, Lousma, McDivitt, White, Worden	Punjab Engineering College (India): Chawla
Minnesota, University of, (MN): Carey, Slayton	Purdue University (IN): Armstrong, Blaha, Bridges, M. Brown, Casper, Cernan, Chaffee, Covey, Feustel, G. Gardner, Grissom, Harbaugh, McCulley, Polansky, Ross, Shriver, Janice Voss, Weber, D. Williams, Wolf
	Queens University (Canada): Feustel
	Rensselaer Polytechnic Institute (NY): Mastracchio, Swigert

EDUCATIONAL INSTITUTIONS FROM WHICH U.S. ASTRONAUTS HAVE EARNED DEGREES

Rice University (TX): Bull, Hoffman, Jernigan, Newman, Olivas, Whitson	Texas A&M University (TX): Fossum, Swanson
Richmond, University of (VA): Melvin	Texas Tech University (TX): Bassett, Harris, Husband, Lockhart
Rochester, University of, (NY): E. Gibson	Thomas Jefferson University (PA): Bagian
Rutgers University (NJ): Hart, Runco	Troy State (AL): Ford, W. Gregory, Halsell, Kregel
San Diego State University (CA): Ochoa	Tulane University (LA): Hurley
San Fransico University (CA): Cagle	Tufts University (MA): Hauck
Southeast Missouri State University (MO): Godwin	Vanderbilt University (TN): Gernhardt
Southern California, University of, (CA): Armstrong, Bobko, Bolden, Carr, Currie, Duffy, Linenger, Noriega, Reightler, Thuot	Vermont, University of, (VT): Graveline
Southern Methodist University (TX): Holmquest	Virginia, University of (VA): Melvin
Southern Mississippi, University of, (MS): Stewart	University College at Cardiff (Wales): Llewellyn
Stanford University (CA): Bull, E. Collins, Fincke, W. Fisher, Garriott, Helms, Jemison, Jernigan, Low, Lu, McCandless, Morgan, Ochoa, Parazynski, Ride, Robinson, S. Smith, Wisoff	University of Tennessee Space Institute (TN): Oefelein
State University of New York (NY): E. Baker, Garan	Utah, University of, (UT): Lind
State University of New York-Farmingdale (NY): Caldeiro	Utah State University (UT): Cleave
State University of New York Maritime College (NY): S. Kelly	Villanova University (PA): A. Allen
Sydney, University of, (Australia): Chapman	Virginia, University of, (VA): Forrester, Henize, K. Thornton, Wisoff
Syracuse University (NY): E. Collins, Musgrave	Virginia Polytechnic State University, Camarda
Tennessee Technical University (TN): Wilmore	Washington, University of, (WA): M. Anderson, Antonelli, Barratt, Cagle, Dunbar, Fabian, Gordon, G. C. Johnson, Kavandi, Love, Nelson
Tennessee, University of, (TN): Ashby, Edwards, Gorie, Hartsfield, Hurley, Seddon, S. Kelly, Wilmore	Washington and Lee University (VA): Low
Texas, University of, (TX): M. Baker, Bean, Cockrell, Crippen, Lockhart, Meade, Nyberg, Thagard, Wilson, Woodward	Washington State University (WA): Fabian, Behnken
Texas, University of, Arlington (TX): Chawla, Stewart	Wayne State University (NE): Linenger
Texas, University of, Dallas (TX): Reilly	Webster University (MO): E. Collins, Gutierrez
Texas, University of, El Paso (TX): Olivas	Wellesley College: Melroy
Texas, University of, School of Public Health (TX): E. Baker	West Florida, University of, (FL): Buchli, Cockrell, Melnick, O'Connor, Phillips, Richards
	Western Kentucky University (KY): Wilcutt
	William & Mary, College of, (VA): D. Brown
	Williams College (MA): O'Leary
	Wisconsin, University of, (WI): Clark, Shaw
	Wisconsin, University of, River Falls (WI): Brandenstein
	Wright State University (OH): Barratt
	Yale University (CT): J. Allen

UNITED STATES SERVICE ACADEMIES FROM WHICH ASTRONAUTS EARNED DEGREES

U.S. Air Force Academy: Blaha, Bloomfield, Bobko, Boe, Bridges, C. Brown, Casper, Chilton, Covey, Drew, Duffy, G. Gardner, Grabe, F. Gregory, W. Gregory, Gutierrez, Halsell, Hammond, Helms, Henricks, G. H. Johnson, Jones, J. Kelly, Kregel, Lee, Lindsey, McMonagle, Precourt, Searfoss, Sega, Shriver, Stott, Veach, Virts

U.S. Air Force Institute of Technology: Anders, Bluford, M. Brown, Cooper, Eisele, Fabian, Ford, Fossum, Halsell, Lindsey, Mullane, Peterson

U.S. Coast Guard Academy: Burbank, Melnick

U.S. Merchant Marine Academy: M. Kelly, See

U.S. Military Academy: Adamson, Aldrin, Borman, Clifford, M. Collins, Forrester, Gemar, Kopra, W. McArthur, Mullane, Peterson, D. Scott, Spring, Wheelock, White, J. Williams, Worden

U.S. Naval Academy: Anders, Bolden, Bowen, Bowersox, Buchli, Bursch, Cabana, Coats, Creighton, Culbertson, Curbeam, Duke, Edwards, Eisele, Foreman, Freeman, Frick, Givens, Gorie, Griggs, Ham, Hire, Hobaugh, Irwin, Jett, Lawrence, Leestma, Linenger, Lopez-Alegria, Loria, Lounge, Lovell, McCandless, McCool, Nowak, O'Connor, Oswald, Phillips, Readdy, Reightler, Schirra, Shepard, Shepherd, M. Smith, Springer, Stafford, Thorne, Thuot, Walker, S. Williams, Zamka

U.S. Naval Postgraduate School: Altman, Bursch, Carr, Cernan, Coats, Curbeam, Evans, Ferguson, Foreman, Frick, Ham, Herrington, Hilmers, Jett, M. Kelly, Leestma, Lopez-Alegria, Lousma, McBride, McCool, Mitchell, Noriega, Nowak, Overmyer, Poindexter, Reightler, Rominger, W. Scott, M. Smith, Springer, Weitz, J. Williams

U.S. Naval War College: J. Williams

U.S. ASTRONAUTS' BIRTHPLACES BY STATE*

ALABAMA: Hartsfield, Hire, Jemison, K. Thornton, James Voss, C. Williams

ARIZONA: Creamer, S. Smith

ARKANSAS: Covey, Parazynski

CALIFORNIA: Caldwell, Chilton, Clifford, Coats, Hauck, Lindsey, Love, McCool, McCulley, Melroy, Morgan, Ochoa, O'Connor, Olivas, Poindexter, Ride, Robinson, Sturckow, van Hoften, Walheim, Young

COLORADO: Brand, Carpenter, Carr, Lounge, Rominger, Roosa, Swigert

CONNECTICUT: Barry, Burbank, Mastracchio, Spring, Thuot

DELAWARE: Currie

FLORIDA: Boe, Davis, Lawrence, Lenoir, R. Richards, W. Scott, Thagard

GEORGIA: Bridges, Carter, Hammond, Kilrain, Walker

HAWAII: K. McArthur, Onizuka

IDAHO: Reilly

ILLINOIS: Altman, Archambault, Cernan, Grunsfeld, Higginbotham, Kerwin, Magnus, Mattingly, McDivitt, Meade, Nagel, Tanner, Veach, Woodward

INDIANA: J. Allen, Borman, M. Brown, England, Ford, Grissom, Ross, Janice Voss, D. Williams, Wolf

IOWA: Clark, Cunningham, Hilmers, J. Kelly, Nelson, Shriver, Whitson

KANSAS: Engle, Evans, Hawley

KENTUCKY: Wilcutt

LOUISIANA: Gorie, Halsell

MAINE: Hobaugh

MARYLAND: Curbeam, Ivins, Jones, Reightler, Virts

MASSACHUSETTS: Apt, Bowen, Duffy, Linnehan, Loria, Lu, McCandless, Musgrave, O'Leary, Precourt, Wilson

MICHIGAN: Antonelli, Bloomfield, Chaffee, Jett, Leestma, Linenger, Lousma, McMonagle, Searfoss, Shaw, Worden

MINNESOTA: Cabana, Carey, D. Gardner, Nyberg, Stefanyshyn-Piper

MISSISSIPPI: Haise, Peterson, Truly

MISSOURI: Akers, Behnken, Godwin, Kavandi, Springer

NEBRASKA: C. Anderson

NEW HAMPSHIRE: Morin, Shepard

NEW JERSEY: Aldrin, Ham, M. Kelly, S. Kelly, Polansky, Reisman, Schirra, Schweickart, Sullivan, Zamka

NEW MEXICO: Gutierrez, Schmitt

NEW YORK: Adamson, M. Anderson, Bobko, Cagle, Camarda, Cleave, E. Collins, A. Fisher, Fullerton, Garan, E. Gibson, R. Gibson, Grabe, W. Gregory, Hoffman, Hurley, Kregel, Massimino, Melnick, Parker, Runco, Stott, Swanson, Wetherbee, Wheelock

NORTH CAROLINA: E. Baker, Brady, C. Brown, Duke, Helms, W. McArthur, M. Smith, W. Thornton

NORTH DAKOTA: Buchli, Hieb

OHIO: Armstrong, Bassett, Cameron, Eisele, Foreman, Gernhardt, Glenn, Good, Harbaugh, Henize, Henricks, Lovell, Low, Overmyer, Resnik, Sega, D. Thomas, Walz, Weber, Williams

OKLAHOMA: Cooper, Garriott, Herrington, Pogue, Stafford

OREGON: Griggs, Petit

PENNSYLVANIA: A. Allen, Bagian, Bluford, Bursch, Conrad, Ferguson, Feustel, Fincke, Freeman, Frick, Hart, Robertson, Horowitz, Irwin, P. Richards, Tani, Weitz

RHODE ISLAND: Readdy

SOUTH CAROLINA: Bolden, Casper, Coleman, Culbertson, Fossum, McNair

SOUTH DAKOTA: Gemar, Fossum

TENNESSEE: M. Baker, Bull, Jernigan, Seddon, Shepherd, Wilmore

TEXAS: Ashby, Bean, Blaha, Cockrell, Creighton, Crippen, Fabian, W. Fisher, Forrester, Givens, Harris, Holmquest, Husband, Kopra, Lockhart, Mitchell, Mullane, D. Scott, See, White

UTAH: Lind

VERMONT: Graveline

VIRGINIA: Bowersox, D. Brown, Edwards, G. Gardner, Melvin, Oefelein, Phillips, Wisoff

WASHINGTON DC: Drew, F. Gregory, Nowak, Stewart

WASHINGTON: Barratt, Dunbar, Gordon, G. C. Johnson, Oswald, Scobee

WEST VIRGINIA: McBride

WISCONSIN: Brandenstein, Chiao, Lee, Michel, Slayton, J. Williams

*See biographical sketches for city

ASTRONAUTS BORN IN OTHER COUNTRIES* (Includes International Astronauts)

ARGENTINA:	Caldeiro	INDIA:	Chawla
AUSTRALIA:	Chapman, A. Thomas	ITALY:	Cheli, M. Collins, Guidoni, Nespoli, Vittori
BRAZIL:	Pontes		
CANADA:	Chamitoff, Garneau, Hadfield, MacLean, Payette, Williams	JAPAN:	Doi, Mohri, Wakata, Noguchi
CHINA:	Lucid	MOROCCO:	Perrin
COSTA RICA:	Chang-Diaz	PACIFIC ISLANDS:	Newman
ENGLAND:	Foale, G.H. Johnson, Sellers, Patrick	PERU:	Noriega
FRANCE:	Clervoy, Eyharts, Chretien, Tognini	RUSSIA:	Krikalev, Titov
GERMANY:	Schlegel, Thiele, Thorne	SPAIN:	Duque, Lopez-Alegria
HONG KONG:	Anders	SWEDEN:	Fuglesang
ICELAND:	Tryggvason	SWITZERLAND:	Nicollier
		THE NETHERLANDS:	Ockels
		WALES:	Llewellyn

*See biographical sketches for city.

ASTRONAUTS' SCOUTING RECORDS (Includes International Astronauts)

EAGLE:

Adamson, Armstrong, Bagian, Bluford,
Bowersox, Brady, Carr, Carter, Chaffee,
Chamitoff, Covey, Creighton, Duke, Eisele,
Forrester, Fossum, Fullerton, W. Gregory,
Griggs, Hoffman, G.H. Johnson, Jones, Lee,
Lind, Lindsey, Llewellyn (King's Scout, U.K.),
Lovell, McCool, McCulley, O'Leary, Onizuka,
Oswald, Parazynski, Pettit, Reightler,
Searfoss, See, Tanner, Truly, D. Walker

LIFE:

Anders, M. Baker, Bassett, Brand, Bridges, D.
Brown, Casper, Cooper, Evans, Fabian, G.
Gardner, Givens, F. Gregory, Kregel, Low,
Mattingly, W. McArthur, Mitchell, Poindexter,
Robinson, D. Scott, Spring, Springer, van
Hoften, C. Williams

STAR:

Barry, Cameron, England, W. Fisher, Garriott,
R. Gibson, Gordon, Grissom, Haise, Lounge,
McNair, Noguchi, Stafford

1st Class:

J. Allen, Anderson, Bean, Bloomfield,
Camarda, Clifford, Coats, Edwards, Engle,
Freeman, Foreman, D. Gardner, E. Gibson,
Hammond, Henize, Herrington, Linnehan,
Nelson, Oelelein, Overmyer, Reilly, Schirra,
Schweickart, W. Scott, Shepard, Veach,
Worden

2nd Class:

Altman, Bolden, Buchli, Carpenter, Cernan,
Culbertson, Husband, Mullane, Parker, Pogue,
Shriver, Swigert, W. Thornton, White,
Woodward, Young

TENDERFOOT:

Aldrin, Bursch, Frick, Garan, Hawley, Kopra,
Lousma, Love, McDivitt, Michel, P. Richards,
Schmitt, S. Smith

EXPLORER:

Barratt, O'Connor, D. Williams

GIRL SCOUT:

Cagle, Clark, E. Collins, Currie, Davis, A.
Fisher, Helms, Higginbotham, Hire, Jernigan,
Lawrence, Magnus, Morgan, Nowak, Seddon,
Stefanyshyyn-Piper, Kilrain, Sullivan, K.
Thornton, Janice Voss, Weber

CUB SCOUT:

A. Allen, C. Brown, Burbank, Carey, Conrad,
Duffy, Foale (Wolf, Germany), Gernhardt,
Hadfield, Henricks, Hobaugh, M. Kelly, S.
Kelly, Leestma, Lopez-Alegria, Loria,
Massimino, McBride, Meade, Musgrave,
Phillips, Readdy, Rominger, Sellers (Wolf),
Shepherd, Thomas, Thuot, D.R. Williams,
Wolf

WEBELO:

M. Anderson, Drew, Fincke, Ford, Gorie, J.
Kelly, Loria, Massimino, Noriega, Olivas

RANK UNKNOWN:

Bull, Clervoy, Garneau, Harris, Morin,
Polansky, Sellers, James Voss

CURRENT U.S. ASTRONAUTS IN ACTIVE MILITARY SERVICE

AIR FORCE:

M. Anderson, Archambault, Behnken,
Bloomfield, Boe, Cagle, Carey, Coleman,
E. Collins, Drew, Duffy, Fincke, Ford,
Garan, Good, Halsell, Helms, Horowitz,
Husband, G. H. Johnson, J. Kelly, Lee,
Lindsey, Lockhart, Melroy, Virts, Walheim,
Walz

AIR FORCE RESERVES:

Fossum, Kregel

ARMY:

Currie, Creamer, Forrester, Kopra, W. W.
McArthur, J. Williams, Wheelock

COAST GUARD:

Burbank

MARINE CORPS:

Hobaugh, Hurley, Loria, Noriega,
Sturckow, Wilcutt, Zamka

NAVY:

Altman, Antonelli, Ashby, M. Baker, Bowen,
Bowersox, Brady, D. Brown, Bursch, Clark,
Curbeam, Ferguson, Foreman, Frick, Gorie,
Ham, Herrington, Jett, M. Kelly, S. Kelly,
Lawrence, Lopez-Alegria, McCool, Morin,
Nowak, Oefelein, Poindexter, Rominger,
Shepherd, Stefanyshyn-Piper, Kilrain,
Wetherbee, S. Williams, Wilmore, Woodward

NAVY RESERVES:

Cockrell, Hire, G.C. Johnson, Phillips,
Readdy, P. Richards, Tanner

U.S. HUMAN SPACE FLIGHT LOG

Mission	Crew	Date	Mission elapsed time(MET), hr:min:sec	Cumulative U.S. man-hr. in space, hr:min:sec
Mercury-Redstone 3	Shepard	May 5, 1961	00:15:22	00:15:22
Mercury-Redstone 4	Grissom	July 21, 1961	00:15:37	00:30:59
Mercury-Atlas 6	Glenn	Feb. 20, 1962	04:55:23	05:26:22
Mercury-Atlas 7	Carpenter	May 24, 1962	04:56:05	10:22:27
Mercury-Atlas 8	Schirra	Oct. 3, 1962	09:13:11	19:35:38
Mercury-Atlas 9	Cooper	May 15-16, 1963	34:19:49	53:55:27
Total - Project Mercury - 53:55:27				
Gemini-Titan III	Grissom, Young	Mar. 23, 1965	04:52:31	63:40:29
Gemini-Titan IV	McDivitt, White	June 3 to 7, 1965	97:56:12	259:32:53
Gemini-Titan V	Cooper, Conrad	Aug. 21 to 29, 1965	190:55:14	641:23:21
Gemini-Titan VII	Borman, Lovell	Dec. 4 to 18, 1965	330:35:01	1302:33:23
Gemini-Titan VI-A	Schirra, Stafford	Dec. 15 and 16, 1965	25:51:24	1354:16:11
Gemini-Titan VIII	Armstrong, D. Scott	Mar. 16, 1966	10:41:26	1375:39:03
Gemini-Titan IX-A	Stafford, Cernan	June 3 to 6, 1966	72:20:50	1520:20:43
Gemini-Titan X	Young, M. Collins	July 18 to 21, 1966	70:46:39	1661:54:01
Gemini-Titan XI	Conrad, Gordon	Sept. 12 to 15, 1966	71:17:08	1804:28:17
Gemini-Titan XII	Lovell, Aldrin	Nov. 11 to 15, 1966	94:34:31	1993:37:19
Total - Gemini Program - 1939:41:52				
Apollo-Saturn 7	Schirra, Eisele, Cunningham	Oct. 11-22, 1968	260:09:03	2774:04:28
Apollo-Saturn 8	Borman, Lovell, Anders	Dec. 21-27, 1968	147:00:42	3215:06:34
Apollo-Saturn 9	McDivitt, D. Scott, Schweickart	Mar. 3-13, 1969	241:00:54	3938:09:16
Apollo-Saturn 10	Stafford, Young, Cernan	May 18-26, 1969	192:03:23	4514:19:25
Apollo-Saturn 11	Armstrong, M. Collins, Aldrin	July 16-24, 1969	195:18:35	5100:15:10
Apollo-Saturn 12	Conrad, Gordon, Bean	Nov. 14-24, 1969	244:36:24	5834:04:22
Apollo-Saturn 13	Lovell, Swigert, Haise	Apr. 11-17, 1970	142:54:41	6262:48:25
Apollo-Saturn 14	Shepard, Roosa, Mitchell	Jan. 31-Feb. 9, 1971	216:01:58	6910:54:19
Apollo-Saturn 15	D. Scott, Worden, Irwin	Jul. 26-Aug. 7, 1971	295:11:53	7796:29:58
Apollo-Saturn 16	Young, Mattingly, Duke	Apr. 16-27, 1972	265:51:05	8594:03:13
Apollo-Saturn 17	Cernan, Evans, Schmitt	Dec. 7-19, 1972	301:51:59	9499:39:10
Total - Apollo Program - 7506:01:51				
Skylab SL-2	Conrad, Kerwin, Weitz	May 25-Jun. 22, 1973	672:49:49	11518:08:37
Skylab SL-3	Bean, Garriott, Lousma	Jul. 28-Sep. 25, 1973	1427:09:04	15799:35:49
Skylab SL-4	Carr, E. Gibson, Pogue	Nov. 16/73-Feb. 8/74	2017:16:00	21851:23:49
Total - Skylab Program - 12351:44:39				
Apollo-Soyuz Test Project (ASTP)	Stafford, Brand, Slayton	July 15 to 24, 1975	217:28:23	22503:48:58
Total ASTP - 652:25:09				
Source: NASA Historical Data Book Volumes 1 and 11				

U.S. HUMAN SPACE FLIGHT LOG

Space Transportation System				
Mission	Crew	Date	MET (lift-off to main gear touchdown). hr:min:sec	Cumulative U.S. man-hr space, hr:min:sec
STS-1	Young, Crippen	Apr. 12-14, 1981	54:20:53	22612:30:44
STS-2	Engle, Truly	Nov. 12-14, 1981	54:13:11	22720:57:06
STS-3	Lousma, Fullerton	Mar. 22-30, 1982	192:04:46	23105:06:38
STS-4	Mattingly, Hartsfield	Jun. 27-Jul. 4, 1982	169:09:31	23443:25:40
STS-5	Brand, Overmyer, J. Allen, Lenoir	Nov. 11-16, 1982	122:14:26	23932:23:24
STS-6	Weitz, Bobko, Peterson, Musgrave	Apr. 4-9, 1983	120:23:42	24413:58:12
STS-7	Crippen, Hauck, Ride, Fabian, Thagard	Jun. 18-24, 1983	146:23:59	25145:58:07
STS-8	Truly, Brandenstein, D. Gardner, Bluford, W. Thornton	Aug. 30-Sep. 5, 1983	145:08:43	25871:41:42
STS-9	Young, Shaw, Garriott, Parker, Lichtenberg, Merbold	Nov. 28-Dec. 8, 1983	247:47:24	27358:26:06
41-B	Brand, R. Gibson, McCandless, McNair, Stewart	Feb. 3-11, 1984	191:15:55	28314:45:41
41-C	Crippen, Scobee, van Hoften, G. Nelson, Hart	Apr. 6-13, 1984	167:40:07	29153:06:16
41-D	Hartsfield, Coats, Resnik, Hawley, Mullane, C. Walker	Aug. 30-Sep. 5, 1984	144:56:04	30022:42:40
41-G	Crippen, McBride, Ride, Sullivan, Leestma, Garneau, Scully-Power	Oct. 5-13, 1984	197:23:38	31404:28:06
51-A	Hauck, D. Walker, D. Gardner, A. Fisher, J. Allen	Nov. 8-16, 1984	191:44:56	32363:12:46
51-C	Mattingly, Shriver, Onizuka, Buchli, Payton	Jan. 24-27, 1985	73:33:23	32730:59:41
51-D	Bobko, Williams, Seddon, Hoffman, Griggs, C. Walker, Garn	Apr. 12-19, 1985	167:55:23	33906:27:22
51-B	Overmyer, F. Gregory, Lind, Thagard, W. Thornton, van den Berg, Wang	Apr. 29-May 6, 1985	168:08:46	35083:28:44
51-G	Brandenstein, Creighton, Lucid, Fabian, Nagel, Baudry, Al-Saud	Jun. 17-24, 1985	169:38:52	36271:00:48
51-F	Fullerton, Bridges, Musgrave, England, Henize, Acton, Bartoe	Jul. 29-Aug. 6, 1985	190:45:26	37606:18:50
51-I	Engle, Covey, van Hoften, Lounge, W. Fisher	Aug. 27-Sep. 3, 1985	170:17:42	38457:47:20
51-J	Bobko, Grabe, Hilmers, Stewart, Pailles	Oct. 3-7, 1985	97:44:38	38946:30:30
61-A	Hartsfield, Nagel, Buchli, Bluford, Dunbar, Furrer, Messerschmid, Ockels	Oct. 30-Nov. 6, 1985	168:44:53	40296:29:34
61-B	Shaw, O'Connor, Cleave, Spring, Ross, Neri-Vela, C. Walker	Nov. 26-Dec. 3, 1985	165:04:49	41452:03:17
61-C	R. Gibson, Bolden, Chang-Diaz, Hawley, G. Nelson, Cenker, B. Nelson	Jan. 12 to 18, 1986	146:03:51	42474:30:14
51-L	Scobee, M. Smith, Resnik, Onizuka, McNair, Jarvis, McAuliffe	Jan. 28, 1986	n/a	42474:30:14
STS-26	Hauck, Covey, Lounge, G. Nelson, Hilmers	Sep. 29-Oct. 3, 1988	97:00:11	42959:31:09
STS-27	R. Gibson, G. Gardner, Mullane, Ross, Shepherd	Dec. 2-6, 1988	105:05:37	43484:59:14
STS-29	Coats, Blaha, Bagian, Buchli, Springer	Mar. 13-18, 1989	119:38:50	44083:13:24
STS-30	D. Walker, Grabe, Thagard, Cleave, Lee	May 4-8, 1989	96:56:27	44567:55:39
STS-28	Shaw, Richards, Adamson, Leestma, M. Brown	Aug. 8-3, 1989	121:00:08	45172:56:19
STS-34	Williams, McCulley, Chang-Diaz, Lucid, E. Baker	Oct. 18-23, 1989	119:39:21	45771:13:04
STS-33	F. Gregory, Blaha, Musgrave, Carter, K. Thornton	Nov. 22-27, 1989	120:06:48	46371:47:04
STS-32	Brandenstein, Wetherbee, Dunbar, Low, Ivins	Jan. 9-20, 1990	261:00:36	47676:50:04
STS-36	Creighton, Casper, Mullane, Hilmers, Thuot	Feb. 28-Mar. 4, 1990	106:18:22	48208:21:54
STS-31	Shriver, Bolden, Hawley, McCandless, Sullivan	Apr. 24-29, 1990	121:16:06	48814:42:24
STS-41	Richards, Cabana, Shepherd, Melnick, Akers	Oct. 6-10, 1990	98:10:04	49305:32:44

U.S. HUMAN SPACE FLIGHT LOG

Space Transportation System				
Mission	Crew	Date	MET (lift-off to main gear touchdown). hr:min:sec	Cumulative U.S. man-hr in space, hr:min:sec
STS-38	Covey, Culbertson, Springer, Meade, Gemar	Nov. 15-20, 1990	117:54:31	49895:05:19
STS-35	Brand, G. Gardner, Hoffman, Lounge, Parker, Durrance, Parise	Dec. 2-10, 1990	215:05:08	51400:41:15
STS-37	Nagel, Cameron, Ross, Apt, Godwin	Apr. 5-11, 1991	143:32:44	52118:34:55
STS-39	Coats, Hammond, Bluford, Harbaugh, Hieb, McMonagle, Veach	Apr. 28-May 6, 1991	199:22:23	53514:01:36
STS-40	O'Connor, Gutierrez, Seddon, Bagian, Jernigan, Gaffney, Hughes-Fulford	Jun. 5-14, 1991	218:14:20	55041:41:56
STS-43	Blaha, M. Baker, Lucid, Adamson, Low	Aug. 2-11, 1991	213:21:25	56108:29:01
STS-48	Creighton, Reightler, Buchli, Gemar, M. Brown	Sep. 12-18, 1991	128:27:38	56750:47:11
STS-44	F. Gregory, Henricks, Musgrave, Runco, James Voss, Hennen	Nov. 24-Dec. 1, 1991	166:50:44	57751:51:35
STS-42	Grabe, Oswald, Thagard, Hilmers, Readdy, Bondar, Merbold	Jan. 22-30, 1992	193:14:44	59104:34:43
STS-45	Bolden, Duffy, Sullivan, Leestma, Foale, Frimout, Lichtenberg	Mar. 24-Apr. 2, 1992	214:09:28	60603:40:59
STS-49	Brandenstein, Chilton, Hieb, Melnick, Thuot, K. Thornton, Akers	May 7-16, 1992	213:17:38	62096:44:25
STS-50	Richards, Bowersox, Dunbar, E. Baker, Meade, DeLucas, Trinh	Jun. 25-Jul. 9, 1992	331:30:04	64417:14:53
STS-46	Shriver, A. Allen, Hoffman, Chang-Diaz, Nicollier, Ivins, Malerba	Jul. 31-Aug. 8, 1992	191:15:03	65756:00:14
STS-47	R. Gibson, C. Brown, Lee, Apt, Davis, Jemison, Mohri	Sep. 12-20, 1992	190:30:23	67089:32:55
STS-52	Wetherbee, M. Baker, Veach, Shepherd, Jernigan, MacLean	Oct. 22-Nov. 1, 1992	236:56:13	68511:10:13
STS-53	D. Walker, Cabana, Bluford, James Voss, Clifford	Dec. 2-9, 1992	175:19:47	69387:49:08
STS-54	Casper, McMonagle, Runco, Harbaugh, Helms	Jan. 13-19, 1993	143:38:19	70106:00:43
STS-56	Cameron, Oswald, Foale, Cockrell, Ochoa	Apr. 8-17, 1993	222:08:24	71216:42:43
STS-55	Nagel, Henricks, Ross, Precourt, Harris, Walter, Schlegel	Apr. 26-May 6, 1993	239:39:59	72894:22:36
STS-57	Grabe, Duffy, Low, Currie, Wisoff, Janice Voss	Jun. 21-Jul. 1, 1993	239:44:54	74332:52:00
STS-51	Culbertson, Readdy, Newman, Bursch, Walz	Sept. 12-22, 1993	236:11:11	75513:47:55
STS-58	Blaha, Searfoss, Seddon, W. McArthur, Wolf, Lucid, Fettman	Oct. 18-Nov. 1, 1993	336:12:32	77867:15:39
STS-61	Covey, Bowersox, Musgrave, K. Thornton, Nicollier, Hoffman, Akers	Dec. 2-2, 1993	259:58:37	79427:07:21
STS-60	Bolden, Reightler, Chang-Diaz, Davis, Sega, Krikalev	Feb. 3-11, 1994	199:09:22	80622:03:33
STS-62	Casper, Allen, Thuot, Gemar, Ivins	Mar. 4-18, 1994	335:16:41	82298:26:58
STS-59	Gutierrez, Chilton, Godwin, Apt, Clifford, T. Jones	Apr. 9-20, 1994	269:49:30	83917:23:58
STS-65	Cabana, Halsell, Hieb, Walz, Chiao, Thomas, Mukai	July 8-23, 1994	353:55:00	86040:53:58
STS-64	Richards, Hammond, Linenger, Helms, Meade, Lee	Sep. 9-20, 1994	262:49:57	87617:53:40
STS-68	Baker, Wilcutt, Wisoff, S. Smith, Bursch, T. Jones	Sep. 30-Oct. 11, 1994	269:46:08	89236:30:28
STS-66	McMonagle, C. Brown, Ochoa, Tanner, Clervoy, Parazynski	Nov. 3-14, 1994	262:34:02	90811:54:40

U.S. HUMAN SPACE FLIGHT LOG

Space Transportation System				
Mission	Crew	Date	MET (lift-off to main gear touchdown). hr:min:sec	Cumulative U.S. man-hr in space, hr:min:sec
STS-63	Wetherbee, E. Collins, Harris, Foale, Janice Voss, Titov	Feb. 3-11, 1995	198:28:15	92002:44:10
STS-67	Oswald, Gregory, Grunsfeld, Lawrence, Jernigan, Durrance, Parise	Mar. 2-18, 1995	399:08:48	94796:45:46
STS-71	Gibson, Precourt, E. Baker, Harbaugh, Dunbar, Solovyev, Budarin, Dezhurov, Strekalov, Thagard	Jun. 27-Jul. 7, 1995	235:22:17	Due to the multi-vehicle missions and change out of crews, Cumulative man-hours will no longer be calculated.
STS-70	Henricks, Kregel, Thomas, Currie, Weber	Jul. 13-22, 1995	214:20:05	
STS-69	Walker, Cockrell, Jim Voss, Newman, Gernhardt	Sep. 7-18, 1995	260:28:56	
STS-73	Bowersox, Rominger, Coleman, Lopez-Alegria, Thornton, Leslie, Sacco	Oct. 20-Nov. 5, 1995	381:52:21	
STS-74	Cameron, Halsell, Hadfield, Ross, W. McArthur	Nov. 12-20, 1995	196:30:46	
STS-72	Duffy, Jett, Chiao, Scott, Wakata, Barry	Jan 1-20, 1996	214:00:45	
STS-75	Allen, Horowitz, Hoffman, Cheli, Nicollier, Chang-Diaz, Guidoni	Feb. 22-Mar. 9, 1996	377:40:21	
STS-76	Chilton, Searfoss, Sega, Clifford, Godwin, Lucid	Mar. 22-31, 1996	221:15:53	
STS-77	Casper, C. Brown, A. Thomas, Bursch, Runco, Garneau	May 19-29, 1996	240:39:24	
STS-78	Henricks, Kregel, Linnehan, Helms, Brady, Favier, Thirsk	Jun. 20-Jul. 7, 1996	405:47:36	
STS-79	Readdy, Wilcutt, Apt, Akers, Walz, Blaha, Lucid	Sep. 16-26, 1996	243:18:00	
STS-80	Cockrell, Rominger, Jernigan, T. Jones, Musgrave	Nov. 19-Dec. 7, 1996	423:53:00	
STS-81	M. Baker, Jett, Wisoff, Grunsfeld, Ivins, Linenger, Blaha	Jan. 12-22, 1997	244:55:00	
STS-82	Bowersox, Horowitz, Tanner, Hawley, Harbaugh, M. Lee, S. Smith	Feb. 11-21, 1997	239:37:00	
STS-83	Halsell, Kilrain, Janice Voss, Gernhardt, D. Thomas, Crouch, Linteris	Apr. 4-8, 1997	95:12:00	
STS-84	Precourt, E. Collins, Clervoy, Noriega, Lu, Kondakova, Foale, Linenger	May 15-24, 1997	221:20:00	
STS-94	Halsell, Kilrain, Janice Voss, Gernhardt, D. Thomas, Crouch, Linteris	Jul. 1-17, 1997	376:45:00	
STS-85	C. Brown, Rominger, Davis, Curbeam, Robinson, Tryggvason	Aug. 7-19, 1997	284:27:00	
STS-86	Wetherbee, Bloomfield, Titov, Parazynski, Chretien, Lawrence, Wolf, Foale	Sep. 25-Oct. 6, 1997	259:21:00	
STS-87	Kregel, Lindsey, Chawla, W. Scott, Doi, Kadenyuk	Nov. 19-Dec. 5, 1997	376:34:00	
STS-89	Wilcutt, Edwards, Reilly, M. Anderson, Dunbar, Sharipov, A. Thomas, Wolf	Jan. 22-31, 1998	211:47:00	
STS-90	Searfoss, Altman, Linnehan, Hire, Dave Williams, Buckey, Pawelczyk	Apr. 17-May 3, 1998	381:50:00	
STS-91	Precourt, Gorie, Chang-Diaz, Lawrence, Kavandi, Ryumin, A. Thomas	Jun. 2-12, 1998	235:54:00	
STS-95	C. Brown, Lindsey, Robinson, Parazynski, Duque, Mukai, Glenn	Oct. 29-Nov. 7, 1998	213:44:00	

U.S. HUMAN SPACE FLIGHT LOG

Space Transportation System

Mission	Crew	Date	MET (lift-off to main gear touchdown). hr:min:sec
STS-88	Cabana, Sturkow, Ross, Currie, Newman, Krikalev	Dec. 4-15, 1998	238:18:00
STS-96	Rominger, Husband, Jernigan, Ochoa, Barry, Payette, Tokarev	May 27-Jun. 6, 1999	235:13:00
STS-93	Collins, Ashby, Coleman, Hawley, Tognin	Jul. 22-27, 1999	118:49:00
STS-103	C. Brown, S. Kelly, S. Smith, Clervoy, Grunsfeld, Foale, Nicollier	Dec. 19-27, 1999	191:11:00
STS-99	Kregel, Gorie, Thiele, Kavandi, Janice Voss, Mohri	Feb. 11-22, 2000	269:38:00
STS-101	Halsell, Horowitz, Weber, J. Williams, James Voss, Helms, Usachev	May 19-29, 2000	236:09:00
STS-106	Wilcutt, Altman, Burbank, Lu, Mastracchio, Malenchenko, Morukov	Sep. 8-20, 2000	283:10:57

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